

Supplementary Table S1: Untargeted metabolomics raw data of HC1 and ALD groups

| Formula        | NC1         | NC2         | NC3         | NC4         | NC5         | NC6         | NC7          | NC8         | NC9          | NC10        | NC11        | ALD1        | ALD2         | ALD3        | ALD4        | ALD5        | ALD6         | ALD7        | ALD8         | ALD9        | ALD10       | ALD11       | ALD12       | ALD13       | ALD14        | ALD15       | ALD16       |             |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| CHC14CN4O3     | 3589388.323 | 3937159.246 | 3589876.751 | 3493329.607 | 3695950.36  | 3087424.138 | 2963656.552  | 4109961.318 | 3282826.603  | 3708665.934 | 3370181.389 | 3567316.196 | 4151810.073  | 4177162.756 | 4254819.525 | 3485827.754 | 3450401.064  | 4048955.061 | 4016172.203  | 4047246.589 | 3691292.8   | 3612313.561 | 4278819.919 | 3155188.725 | 3402284.909  | 3715798.585 | 3729549.473 |             |
| CHC13CN2O2P2S2 | 1701959.864 | 1959769.617 | 1864969.495 | 1784620.645 | 1731986.575 | 1548316.313 | 1721814.518  | 1804918.618 | 1851732.693  | 1984159.143 | 1974009.638 | 1919955.513 | 2037801.25   | 2090045.93  | 2530351.55  | 1824404.275 | 1766015.128  | 1216060.847 | 1959561.287  | 2251390.381 | 1842003.154 | 1749995.592 | 1949446.16  | 1897571.618 | 1893837.708  | 1850547.091 | 1785314.098 |             |
| CHC13CN3O3P3   | 47791.41626 | 71658.46469 | 51487.69318 | 47201.76384 | 75146.01013 | 39083.90499 | 60835.05951  | 65260.48181 | 36608.86127  | 54155.51601 | 34649.8814  | 46342.08951 | 62480.44004  | 70153.10783 | 108046.2456 | 91578.76907 | 101610.9265  | 136211.6572 | 73930.14535  | 102732.9611 | 104805.1805 | 40953.04971 | 63401.10314 | 56852.03581 | 68571.52215  | 56782.44324 | 20102.01609 |             |
| CHC13CN3O4P2S2 | 42793.686   | 5076800.959 | 5781141.791 | 5756977.598 | 6070801.632 | 6132347.622 | 6117473.575  | 5782740.867 | 3661994.828  | 3980952.95  | 4459283.148 | 4249881.825 | 3980952.95   | 4459283.148 | 4249881.825 | 3980952.95  | 4459283.148  | 4249881.825 | 3980952.95   | 4459283.148 | 4249881.825 | 3980952.95  | 4459283.148 | 4249881.825 | 3980952.95   | 4459283.148 | 4249881.825 |             |
| CHC11CN7O3P3   | 118113.0852 | 1319470.588 | 1518385.303 | 525146.9443 | 1019191.15  | 399522.5392 | 418406.3169  | 503242.5628 | 429706.6324  | 543812.0765 | 511615.0676 | 480575.3824 | 3716800.044  | 459070.4121 | 441129.3513 | 421939.5201 | 471838.382   | 414183.1193 | 47011.17301  | 505336.8634 | 517489.9192 | 419498.9293 | 502088.0013 | 140016.3083 | 492524.3525  | 453585.8402 | 361101.3291 |             |
| CHC1011P2S3    | 104189.7503 | 168925.1508 | 101074.0716 | 195059.1373 | 87244.4614  | 133198.9828 | 94013.06492  | 15571.16402 | 123417.0181  | 154002.8599 | 161006.6959 | 245689.8629 | 150524.0869  | 225814.1466 | 127814.3957 | 106042.5701 | 156522.4545  | 204458.002  | 91541.488    | 200782.8551 | 163930.8788 | 218069.155  | 252844.8653 | 12023.2358  | 194564.7818  | 212974.9934 | 164260.1322 |             |
| CHC12CN2O2P5   | 15588657.75 | 18433516.14 | 12490118.98 | 15477587.4  | 15797609.97 | 1077843.92  | 12353910.5   | 18039459.59 | 14839773.58  | 16853296.86 | 13974736.08 | 17323630.17 | 19253047.51  | 19485699.76 | 22730134.33 | 17281082.5  | 14649936.99  | 18172344.86 | 17707642.84  | 20556722.65 | 14331352.2  | 15539318.35 | 20299012.05 | 15132246.52 | 17900348.24  | 18443011.88 | 16069091.69 |             |
| CHC12CN6P5     | 2180239.053 | 2092155.072 | 2177577.815 | 1918740.045 | 1933001.738 | 1959636.619 | 1688628.939  | 2246638.873 | 1900185.41   | 1920870.053 | 1919253     | 1807573.295 | 2114483.35   | 2233056.729 | 1942870.664 | 2129321.961 | 2073309.4    | 2063117.82  | 2157753.592  | 2088660.921 | 2069336.947 | 2241444.865 | 2329326.445 | 1735277.149 | 1928219.751  | 1937636.57  |             |             |
| CHC12O5P5      | 466724.9504 | 427212.6215 | 551415.5341 | 543461.683  | 563006.2482 | 536685.5535 | 616804.6706  | 574441.7937 | 691884.0046  | 618506.7887 | 560693.4334 | 672889.4565 | 640139.7619  | 860212.2853 | 591690.9855 | 564339.626  | 579133.5409  | 565646.0644 | 574724.6565  | 571560.9187 | 639395.5167 | 779616.376  | 742577.2622 | 483031.2002 | 527131.5688  | 579418.2746 | 588818.7757 |             |
| CHC13N4O2P2S4  | 2946921.259 | 3056409.06  | 2813420.872 | 3825862.634 | 3205620.249 | 2488449.698 | 2932280.861  | 3462132.198 | 2785986.464  | 2941854.436 | 2911718.814 | 3032738.898 | 3461801.091  | 3460710.197 | 3232057.74  | 3132346.253 | 2822759.447  | 3047733.449 | 3011906.183  | 3085068.753 | 3606025.294 | 3122205.947 | 3404021.382 | 2595257.827 | 3727638.933  | 2953939.144 | 2954272.859 |             |
| CHC13O3P2S5    | 1623212.812 | 1977758.434 | 1453019.453 | 1657654.348 | 1746310.175 | 1410960.259 | 1743745.329  | 1793355.933 | 1523877.492  | 2047066.474 | 1479789.636 | 1472703.869 | 1165239.142  | 1462972.526 | 2059685.772 | 1666473.58  | 1244212.039  | 2341358.894 | 1916610.034  | 1750590.688 | 1358234.267 | 1098247.286 | 1432426.894 | 1719427.884 | 2090634.234  | 1993554.736 | 1945315.101 |             |
| CHC1015S       | 158447.5307 | 30515.0812  | 171110.4964 | 88000.1202  | 358113.297  | 149088.3182 | 136122.929   | 37611.05594 | 33809.42529  | 77708.04642 | 57545.31414 | 373136.7249 | 274579.1449  | 27140.6999  | 162584.7025 | 24644.31774 | 285948.6677  | 430435.093  | 262033.9983  | 248315.5776 | 28159.15454 | 236487.6456 | 106924.5492 | 354391.2026 | 25296.47429  | 33514.52686 | 30587.10642 |             |
| CHC1011        | 404387.8763 | 387758.8424 | 361925.7738 | 314694.1485 | 135020.9355 | 271148.7601 | 327018.831   | 309054.7366 | 394114.2337  | 410602.0073 | 388003.7861 | 428512.8132 | 396148.6075  | 417659.13   | 447073.9808 | 410372.6878 | 385909.8949  | 412110.0349 | 344274.4574  | 369125.5864 | 473263.9593 | 355348.3797 | 369455.5017 | 422897.2815 | 432122.0811  | 309062.0888 | 320358.0319 |             |
| CHC18O6P3      | 527042.7333 | 662207.5128 | 635605.0119 | 721377.1322 | 740760.9654 | 901017.0765 | 721570.0881  | 846476.3366 | 589674.0131  | 699990.7016 | 677306.0124 | 640710.0135 | 577583.2335  | 662218.1048 | 663855.1329 | 818431.984  | 585422.0689  | 184695.2995 | 654728.0528  | 573085.1363 | 643714.1247 | 791267.5662 | 658967.6138 | 542852.6199 | 601479.5576  | 647805.1348 | 757307.96   |             |
| CHC12CN4O3S    | 292140.0787 | 266524.614  | 291475.7286 | 211098.4431 | 262478.9467 | 260310.2113 | 252017.4742  | 272210.0467 | 291082.0429  | 300478.0142 | 308715.4872 | 151111.2908 | 367387.2484  | 412485.6539 | 365016.6557 | 351200.5061 | 441667.2078  | 291829.9165 | 339803.9607  | 351704.2875 | 499617.5351 | 483199.7762 | 435694.8547 | 431245.4325 | 435537.0929  | 309643.9963 |             |             |
| CHC2Bn10P      | 8429.689235 | 5095.40813  | 5266.827965 | 8600.22544  | 4094.975424 | 4321.274521 | 9697.03686   | 4959.691767 | 8927.529776  | 6352.452106 | 7113.75351  | 4851.417369 | 4604.74834   | 9804.757907 | 11099.74538 | 19581.84599 | 20537.01362  | 22905.0767  | 23231.60166  | 8486.613869 | 4393.497983 | 21882.03624 | 4819.28227  | 16405.0062  | 65538.68236  | 10410.6496  | 7696.858603 |             |
| CHC2Bn3P       | 18349.08918 | 46234.20027 | 11714.88478 | 29657.41433 | 86521.02198 | 38622.30928 | 47876.36166  | 49849.30172 | 169037.10309 | 52973.81182 | 38319.51746 | 61139.97177 | 85858.60152  | 222984.9814 | 40492.9117  | 36775.91027 | 214927.64179 | 14385.20753 | 47984.08425  | 44110.12799 | 65542.50603 | 98924.79065 | 38489.6586  | 105478.3448 | 141233.967   | 129479.786  |             |             |
| CHC12CN2O8P2S5 | 575066.112  | 570957.9749 | 664095.8785 | 687261.2075 | 645688.6052 | 593350.3852 | 691460.981   | 642024.2279 | 756202.3775  | 676049.489  | 709767.4212 | 749883.7109 | 901966.6637  | 884625.2658 | 774888.7187 | 690265.0689 | 701799.7127  | 844093.8719 | 676299.7747  | 613389.7589 | 673363.8816 | 901243.8294 | 781396.5458 | 68628.7271  | 728081.3297  | 712844.8601 | 706745.0656 |             |
| CHC13O9P5P5    | 5094499.124 | 5733939.706 | 451133.414  | 5285977.77  | 4954688.691 | 397214.943  | 4588128.245  | 5453607.245 | 524805.495   | 4747358.827 | 5242630.238 | 5639519.399 | 5766132.206  | 5524138.046 | 5202396.184 | 4828444.459 | 557251.366   | 5338299.261 | 536378.6129  | 5198786.216 | 4805454.095 | 5461606.751 | 4277538.659 | 4956817.427 | 5310358.843  | 506764.266  |             |             |
| CHC11O8S2      | 45095.0516  | 55366.3228  | 44932.27105 | 40629.19632 | 47290.23553 | 47746.46872 | 51282.84154  | 61486.45317 | 414963.1152  | 53285.88518 | 52672.96079 | 63534.94373 | 64940.005363 | 62923.95681 | 44880.00551 | 157422.491  | 1456128.3    | 44353.37344 | 58681.69439  | 57269.22345 | 42835.30084 | 37483.61627 | 45460.83324 | 38634.12051 | 47685.55634  | 44867.3236  | 4478.40934  |             |
| CHC2N3P3       | 1756674.097 | 1883923.321 | 247462.6118 | 174054.0772 | 1881408.847 | 600837.1079 | 151951.8335  | 2979720.331 | 1166242.9683 | 889368.3696 | 1021220.401 | 56422.9678  | 1021220.401  | 56422.9678  | 1021220.401 | 56422.9678  | 1021220.401  | 56422.9678  | 1021220.401  | 56422.9678  | 1021220.401 | 56422.9678  | 1021220.401 | 56422.9678  | 1021220.401  | 56422.9678  | 1021220.401 | 56422.9678  |
| CHC1012P2      | 43711.889   | 117552.8118 | 402482.2599 | 1038465.463 | 501310.5769 | 1267321.689 | 110921.4951  | 69558.00612 | 34692.87401  | 50141.76687 | 310559.0667 | 190306.2335 | 82260.02618  | 54230.1969  | 114477.4507 | 26517.9078  | 761219.419   | 37121.74385 | 11920.737    | 159600.8699 | 134592.7036 | 90050.74919 | 44099.65982 | 27153.86204 | 144780.8086  | 35794.03638 | 114460.9631 |             |
| CHC12CN5O4P4   | 66320.1289  | 6599528.381 | 62107.6248  | 384965.761  | 632491.641  | 6207241.71  | 52149632.665 | 5979750.811 | 39127.1711   | 4193632.645 | 777329.929  | 3811660.416 | 52149632.665 | 5979750.811 | 39127.1711  | 4193632.645 | 777329.929   | 3811660.416 | 52149632.665 | 5979750.811 | 39127.1711  | 4193632.645 | 777329.929  | 3811660.416 | 52149632.665 | 5979750.811 | 39127.1711  | 4193632.645 |
| CHC12CN2O3P3S4 | 2949729.355 | 444115.892  | 239996.329  | 3375128.527 | 4644214.724 | 2681166.295 | 3050056.886  | 5676699.179 | 1943836.551  | 4340231.17  | 322601.056  | 3727469.626 | 5614185.83   | 6019286.879 | 5846324.379 | 3794645.561 | 2936604.422  | 451538.1294 | 4175309.076  | 4418795.426 | 2900264.487 | 3281523.88  | 5085449.671 | 3130304.044 | 3932957.791  | 441337.204  | 3750858.84  |             |
| CHC12O6P3S2    | 3591524.962 | 3991524.962 | 351474.31   | 3552587.454 | 3545999.252 | 2992276.091 | 3115253.023  | 3987172.36  | 331859.275   | 370083.34   | 3488052.429 | 360795.934  | 4170002.402  | 4204363.83  | 4344587.209 | 3470414.14  | 354805.734   | 4268052.734 | 4210504.504  | 4069575.821 | 3691292.8   | 3588793.907 | 4290753.373 | 325490.098  | 3575026.07   | 3890408.555 | 3844228.401 |             |
| CHC13O5P2S2    | 68930.88771 | 99249.11564 | 87055.13613 | 29907.73316 | 90880.28654 | 81739.3636  | 88925.68188  | 96876.29427 | 73196.35542  | 10808.2727  | 83053.56988 | 49555.43712 | 113636.3012  | 48165.53883 | 19918.34979 | 35016.6557  | 351200.5061  | 441667.2078 | 291829.9165  | 339803.9607 | 351704.2875 | 499617.5351 | 483199.7762 | 435694.8547 | 431245.4325  | 435537.0929 | 309643.9963 |             |
| CHC13O16       | 321943.8614 | 180857.6341 | 287273.5853 | 275467.2038 | 25358.4206  | 247490.7487 | 374525.7415  | 278564.5214 | 378051.6308  | 29977.7885  | 208916.3489 | 353953.021  | 518159.5704  | 335032.5976 | 174526.1078 | 20272.7825  | 40451.7486   | 26595.07349 | 409696.5262  | 44151.7439  | 31682.3004  | 157022.0441 | 210901.0297 | 351209.012  | 60725.005    | 263262.3573 | 285116.1849 |             |
| CHC13O5        | 766174.5709 | 566201.1729 | 393838.1456 | 771215.1256 | 516475.4687 | 581416.39   |              |             |              |             |             |             |              |             |             |             |              |             |              |             |             |             |             |             |              |             |             |             |

|                 |             |             |             |             |             |              |             |             |              |             |             |              |              |             |              |             |             |             |             |             |             |             |             |              |             |             |             |
|-----------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| C1H02C02N05P05  | 908570.7655 | 454528.6747 | 1155081.216 | 1007408.648 | 833786.8576 | 888726.4816  | 839959.0637 | 823750.5432 | 91019.2384   | 1094837.229 | 1183919.362 | 1464143.362  | 1394808.013  | 1590080.836 | 486362.0952  | 825187.7517 | 632993.449  | 315709.5678 | 1695269.839 | 1045831.504 | 815988.2131 | 620710.2815 | 509665.9644 | 853726.4948  | 750051.0206 | 776486.7829 | 783391.5864 |
| C1H02N05P       | 18502.183   | 83586.78953 | 99891.82912 | 37675.20477 | 77163.77617 | 157641.6956  | 97308.46848 | 652585.4744 | 299980.3455  | 105634.2707 | 351005.7493 | 549464.7995  | 334920.4981  | 391286.7017 | 257747.8123  | 182264.1184 | 284567.2104 | 321474.6483 | 254953.2266 | 83314.13319 | 447749.4789 | 533771.0147 | 37811.18446 | 448764.152   | 42272.5707  | 471671.984  | 150362.8426 |
| C1H02C1C2N03    | 95422.81626 | 50841.46556 | 73808.27352 | 89245.54784 | 69552.05222 | 63935.54204  | 72033.44374 | 90881.13321 | 485122.90824 | 81120.5515  | 66195.92914 | 70515.58111  | 94831.06466  | 100107.3552 | 64486.97002  | 78770.36157 | 50043.19791 | 36284.85142 | 96071.11647 | 100402.6896 | 76547.28397 | 52861.19491 | 33723.59244 | 51581.17467  | 68852.16097 | 20171.1765  | 37918.97565 |
| C1H021N80P      | 7523294.221 | 15627262.97 | 2920694.616 | 15197208.97 | 19166672.11 | 8591053.468  | 14569707.79 | 9307921.925 | 1485225.529  | 9653589.658 | 3384401.4   | 2902442.677  | 119001.16462 | 15121283.63 | 20047449.66  | 3295451.73  | 13281133.6  | 8468518.653 | 7958805.65  | 1953252.529 | 5960252.58  | 1065471.02  | 9011990.902 | 3471826.649  | 4403670.761 | 6453090.761 | 6157169.741 |
| C1H02N4         | 451542.126  | 749396.129  | 927285.0047 | 3631692.314 | 524389.4053 | 5316727.2329 | 608692.5484 | 943340.0053 | 655051.3333  | 647741.8329 | 675845.0739 | 520921.1442  | 696061.3706  | 391401.6706 | 191041.264   | 1489955.35  | 1390693.419 | 1219781.754 | 1060698.519 | 1320584.832 | 165428.051  | 975635.861  | 1156424.69  | 71666.2996   | 825176.4298 | 15766.2996  | 825176.4298 |
| C1H02Z05        | 59829.70712 | 80685.71233 | 63766.67879 | 63677.65234 | 53299.00286 | 2161519.11   | 49089.5882  | 84240.27124 | 81450.7635   | 50035.64479 | 4904229.104 | 53633.32181  | 53099.88482  | 34944.14519 | 400740.87512 | 45847.36748 | 58238.97439 | 39292.28989 | 42607.09946 | 36135.31058 | 51723.62462 | 33697.09969 | 56824.53274 | 58905.61881  | 76220.86723 | 46904.6888  | 4898.78409  |
| C1H02N4304P3    | 4515142.184 | 4377632.538 | 927285.0047 | 3631692.314 | 524389.4053 | 700257.8187  | 810400.1724 | 2710120.798 | 2149139.555  | 2348481.694 | 530753.1063 | 1333037.458  | 153373.1281  | 3629004.251 | 2120424.579  | 3446601.143 | 2418226.36  | 1460796.901 | 3251420.773 | 1644624.675 | 164322.461  | 1908673.869 | 4422373.373 | 459492.183   | 7460455.778 | 3668780.242 | 3840031.585 |
| C1H02N430P2S2   | 251993.2558 | 310725.3693 | 367455.4846 | 325962.1544 | 301913.437  | 340247.5051  | 324920.3089 | 253368.1272 | 290226.8018  | 313206.4042 | 483558.1675 | 237074.1594  | 456677.566   | 305628.618  | 283372.0523  | 237074.5297 | 185929.5183 | 385265.0237 | 238687.0307 | 281189.3625 | 318290.0868 | 115188.2703 | 120606.8908 | 173874.6871  | 330225.9444 | 245387.2378 | 223190.3095 |
| C1H02N42P2S     | 3786464.609 | 2585425.522 | 3573235.984 | 3236885.605 | 3994322.782 | 3811984.179  | 4239389.76  | 3420584.664 | 4443382.073  | 3666837.194 | 2656964.984 | 2570627.899  | 2930630.22   | 3157670.13  | 3823829.363  | 4455002.61  | 2906395.51  | 1422330.702 | 2209083.063 | 474648.331  | 4012243.676 | 3275948.915 | 533835.7565 | 3224505.2323 | 2717089.461 | 2252041.245 | 3556940.786 |
| C1H02N46N06S    | 1726709.538 | 1550681.725 | 2173762.017 | 1739220.809 | 3222751.056 | 187196.725   | 2436293.286 | 3950687.571 | 2547922.491  | 2523169.479 | 1792914.729 | 2729995.543  | 2022146.91   | 1241438.694 | 230211.58    | 2175256.509 | 2685526.557 | 4214735.295 | 1860765.193 | 2101310.614 | 3172122.45  | 4357356.003 | 1552614.871 | 5682992.092  | 6479395.483 | 2142583.682 | 1754426.095 |
| C1H025C0N03P3   | 444473.4974 | 136627.8865 | 698507.7883 | 114869.636  | 348117.8739 | 450852.0659  | 419271.6025 | 432475.3675 | 522404.4532  | 507241.5641 | 633444.6017 | 459783.4181  | 355768.9363  | 647206.8295 | 168400.9622  | 206543.7105 | 206998.0934 | 131322.4319 | 993255.6721 | 571779.6797 | 435685.6726 | 700360.3625 | 376048.5889 | 512786.7632  | 202475.4269 | 540158.2135 | 66809.2223  |
| C1H025N406P     | 11412185.05 | 6505217.037 | 11392678.71 | 762076.62   | 8869981.251 | 10210989.98  | 8721104.079 | 13368328.43 | 11372300.52  | 10238736.61 | 5873668.523 | 11345629.5   | 6067595.318  | 10928837.18 | 7262593.387  | 8472341.028 | 1275695.85  | 10685487.95 | 451508.747  | 11059608.36 | 16841710.22 | 11772030.25 | 8100813.53  | 18149339.04  | 12697453.58 | 9752933.13  | 10313654.59 |
| C1H026N90P0S2   | 124539.3363 | 35283.42157 | 101141.8028 | 107412.9173 | 95518.62843 | 93947.15855  | 84157.37231 | 125129.9479 | 8283381.498  | 113065.707  | 75133.66322 | 127681.0596  | 134411.7423  | 193634.2307 | 31869.34511  | 50972.04118 | 56364.79369 | 17519.29524 | 161424.1939 | 1551524.968 | 123299.1839 | 78439.45691 | 77844.44795 | 31767.61683  | 30538.77185 | 70096.71208 | 47980.31661 |
| C1H028N7010P    | 65781.1156  | 43855.93048 | 60720.8206  | 74504.54666 | 56638.33403 | 80474.70467  | 81971.13352 | 45740.27034 | 80266.40074  | 61067.29606 | 62671.90561 | 84470.22911  | 75031.14507  | 127399.3127 | 15362.5185   | 160658.1439 | 115958.6307 | 24242.10779 | 107104.4807 | 66233.48524 | 101660.886  | 19852.66882 | 16630.32476 | 42251.54317  | 81628.66392 | 29602.91697 | 30068.17135 |
| C1H028N903P     | 6248322.961 | 5768697.836 | 5585385.738 | 6755944.503 | 5861539.115 | 5961679.252  | 4117701.311 | 8776403.23  | 7026800.683  | 514925.195  | 1228132.156 | 6792316.255  | 5901457.527  | 1653243.156 | 5895067.122  | 6588895.171 | 8518180.255 | 5673804.426 | 1951845.325 | 6859635.716 | 1028370.356 | 5985869.874 | 6645867.874 | 13216346.79  | 5720350.135 | 5805922.426 | 646328.7135 |
| C1H0306P        | 18414079.24 | 18999739.45 | 19119089.32 | 20414557.99 | 19375211.5  | 20239653.57  | 19665142.4  | 20720519.25 | 17886827.08  | 1936452.28  | 18711434.93 | 17271382.85  | 16702840.49  | 17434973.06 | 16975227.99  | 18190786.46 | 19086985.85 | 18422417.17 | 17728733.97 | 17521382.81 | 19795844.35 | 19519780.61 | 17671468.98 | 18039894.55  | 16319942.82 | 17939385.41 | 18561678.84 |
| C1H05C2N408P53  | 335956.6595 | 324661.4775 | 289357.367  | 354745.2245 | 278735.7169 | 291766.4825  | 243322.066  | 412853.2566 | 218243.3905  | 318299.8137 | 321089.0775 | 555958.2862  | 782066.2799  | 15652.5709  | 255179.3191  | 356490.1011 | 222440.3802 | 287666.3399 | 295266.8305 | 235561.1893 | 283726.8298 | 305319.1302 | 443336.9404 | 219330.4045  | 336066.0921 | 173010.3876 | 250917.7489 |
| C1H06C2N015P2S4 | 749219.0434 | 717240.1918 | 678990.4784 | 651677.209  | 610879.6172 | 632176.2252  | 657230.1986 | 774357.6517 | 743537.2931  | 634040.4698 | 1503831.54  | 1514011.885  | 1478251.694  | 782821.3659 | 737237.1353  | 678720.7268 | 608801.0544 | 817065.7417 | 704862.9154 | 1149455.715 | 610249.9156 | 1149455.715 | 610249.9156 | 1149455.715  | 610249.9156 | 1149455.715 | 610249.9156 |
| C1H07N003P2S    | 32328.5563  | 47615.49327 | 54434.75796 | 320865.7451 | 41420.8325  | 62171.83852  | 41912.47264 | 488305.095  | 49942.4457   | 52481.001   | 414942.4962 | 351494.0031  | 784073.4942  | 2242433.137 | 1110985.17   | 3351700.398 | 145589.582  | 1118993.673 | 27846.14722 | 1334884.188 | 27764.99145 | 23980.2044  | 40473.6092  | 13116.9673   | 299740.062  | 27580.23121 | 1586680.862 |
| C1H08N400P2S    | 481642.917  | 3598560.614 | 4672924.74  | 5689483.557 | 6213730.099 | 4884550.005  | 723685.1758 | 7799912.13  | 4250796.131  | 6006027.352 | 6848726.549 | 1758950.544  | 4160627.352  | 1816094.1   | 2258351.219  | 5469063.425 | 4129398.046 | 5356719.247 | 5221785.459 | 588815.51   | 1345970.415 | 1900653.545 | 589345.281  | 396630.281   | 3788133.793 | 47721.104   | 3788133.793 |
| C1H09C4013P5S   | 43896.1369  | 424422.6681 | 41051.2305  | 363561.6932 | 137031.5461 | 343721.1358  | 414341.7007 | 448791.4745 | 357823.1631  | 503014.7222 | 484190.2711 | 83671.15349  | 949831.1285  | 1100557.239 | 516790.7202  | 397874.8497 | 423436.146  | 669882.347  | 591723.2118 | 580658.0149 | 493908.3433 | 526057.4113 | 717139.549  | 442480.7993  | 456560.2624 | 48415.2595  | 384144.3496 |
| C1H10C0N3S      | 613576.8388 | 59814.9488  | 22727.3398  | 46588.4283  | 63834.9047  | 28811.22882  | 40558.48263 | 48384.0947  | 72786.85045  | 36301.67294 | 40522.68422 | 49331.0549   | 93893.13651  | 107953.4638 | 19175.4369   | 11975.4369  | 66363.06092 | 109868.1245 | 39660.59776 | 41523.76002 | 66536.31528 | 71021.4295  | 71021.4295  | 71021.4295   | 71021.4295  | 71021.4295  | 71021.4295  |
| C1H11N0204S     | 6098133.761 | 94932.5269  | 5124223.35  | 6652510.741 | 49071.9032  | 6012870.975  | 9344463.044 | 4259855.841 | 323888.394   | 4583487.592 | 430404.815  | 788736.5507  | 539375.551   | 5051957.744 | 1662173.663  | 996100.9951 | 152639.258  | 1410000.28  | 4686818.048 | 3072115.852 | 446100.868  | 135284.2822 | 105899.676  | 2057265.206  | 211379.8679 | 84938.99232 | 95423.54386 |
| C1H11N04N01     | 1843045.519 | 23300.7297  | 1185447.201 | 107121.654  | 1611062.216 | 1338180.507  | 9651739.047 | 1286351.288 | 171296.051   | 153064.045  | 185751.2965 | 454003.6045  | 183571.945   | 175352.4968 | 126361.2586  | 171359.249  | 171670.1396 | 171670.1396 | 171670.1396 | 171670.1396 | 171670.1396 | 171670.1396 | 171670.1396 | 171670.1396  | 171670.1396 | 171670.1396 | 171670.1396 |
| C1H12C0N70      | 505230.152  | 7249981.895 | 5202878.36  | 4360357.872 | 379380.184  | 353266.61    | 3238077.747 | 2992872.638 | 30601.0081   | 482474.338  | 6451123.273 | 3915113.108  | 98083.8117   | 554354.852  | 5234680.737  | 2584627.34  | 1973044.47  | 405064.91   | 423721.564  | 5211884.16  | 3866601.857 | 1503636.822 | 28761.4429  | 1528726.218  | 381910.969  | 260639.862  | 305697.9327 |
| C1H12N202       | 301729788.7 | 223597502.1 | 82459.366   | 173191092.5 | 267305933.4 | 168373302.7  | 223040163.8 | 34431.4611  | 84679.22888  | 246791.1942 | 279622764.4 | 32801.4902   | 223635614.7  | 146922630.8 | 195062649.2  | 163912552.8 | 145196062.4 | 1017474.633 | 302571714.9 | 376027028.4 | 352994.655  | 181592489.5 | 24968828.4  | 121628133.9  | 65884.98697 | 14939418.1  | 114826611.9 |
| C1H12N202       | 2095284.988 | 110081.8305 | 67163.72855 | 173104.131  | 1661820.919 | 1205790.981  | 1186813.944 | 193258.531  | 10777.60757  | 246791.1942 | 279622764.4 | 32801.4902   | 223635614.7  | 146922630.8 | 195062649.2  | 163912552.8 | 145196062.4 | 1017474.633 | 302571714.9 | 376027028.4 | 352994.655  | 181592489.5 | 24968828.4  | 121628133.9  | 65884.98697 | 14939418.1  | 114826611.9 |
| C1H12N4N01      | 131222.5481 | 128944.8027 | 50085.6974  | 96521.57031 | 104764.7847 | 70291.39428  | 117479.0116 | 102708.1506 | 129670.9771  | 59373.63636 | 160675.8317 | 20515740.357 | 77930.27842  | 301435.5525 | 226439.7382  | 136534.5317 | 287930.307  | 354966.1306 | 177497.1467 | 182681.395  |             |             |             |              |             |             |             |

|                |             |             |             |              |             |             |             |             |             |             |             |             |             |             |              |             |             |             |             |             |             |             |              |             |             |             |             |
|----------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|
| C11H23N3O6     | 162543.8253 | 115632.5702 | 156068.7004 | 134533.2576  | 139505.9299 | 95710.31193 | 160503.3352 | 129414.6029 | 123908.0198 | 98889.54913 | 81543.03745 | 85419.21013 | 96321.51004 | 103523.1254 | 293195.833   | 395074.0378 | 334889.0644 | 241705.1445 | 135240.8211 | 193288.2929 | 146472.8787 | 659971.546  | 872120.5951  | 287330.9324 | 222715.4056 | 68885.16794 | 73338.89551 |
| C11H24N4O6P    | 1326822.539 | 1122991.077 | 995672.0945 | 1558801.663  | 3304337.176 | 1925721.57  | 1050379.453 | 3947368.251 | 1498075.15  | 2674097.604 | 76663.0768  | 1153600.496 | 1127039.287 | 1453584.511 | 1453834.798  | 1915305.9   | 1159588.795 | 3673841.992 | 1415143.284 | 1617972.094 | 1497869.602 | 3826376.67  | 862354.9188  | 5629593.226 | 5759879.194 | 1986393.992 | 1041443.003 |
| C11H24N4O6P2S  | 959387.956  | 509983.5691 | 928304.223  | 1409375.377  | 734626.3297 | 1053615.982 | 688159.779  | 999025.8479 | 971006.3197 | 884221.141  | 9625446.448 | 970116.3773 | 1596024.295 | 1199304.569 | 415361.4431  | 1793916.661 | 1288742.673 | 267812.233  | 868853.3379 | 891594.9218 | 725302.8964 | 679562.102  | 442607.4952  | 566365.2948 | 480669.4426 | 1407659.316 | 1693806.625 |
| C11H24Cl2N2P5  | 2183268.405 | 2198296.252 | 2049334.488 | 1708875.216  | 2009528.146 | 2792840.984 | 2358884.223 | 2465112.984 | 2300853.821 | 2297873.994 | 2071586.724 | 1172313.914 | 2076649.775 | 2326446.959 | 1927269.934  | 3525812.934 | 305896.044  | 724121.2661 | 1676359.979 | 2289774.188 | 2902700.778 | 2433392.321 | 1937459.265  | 25931.1672  | 965515.3963 | 2080624.231 | 240653.556  |
| C11H24O4S2     | 10499.9648  | 10827.53265 | 12607.63744 | 13494.50791  | 12614.82732 | 12267.63416 | 11435.46109 | 11801.9693  | 10881.90021 | 14508.74692 | 11486.75102 | 14962.26257 | 14034.05116 | 14091.3097  | 7982.307781  | 47630.9282  | 411234.9622 | 7942.794904 | 16206.22543 | 15324.54618 | 11500.67871 | 8727.862511 | 6996.509539  | 5961.148072 | 12997.8612  | 43120.20731 | 4422.57927  |
| C11H25CN3O3P3  | 122119.7392 | 211836.6339 | 335960.3078 | 451885.3621  | 325503.1424 | 303546.9311 | 331818.3976 | 379975.9731 | 259665.3668 | 279097.3729 | 362575.7349 | 34310.1887  | 429228.7997 | 478651.8819 | 318103.5285  | 371028.839  | 261619.814  | 178968.0114 | 485633.7863 | 479931.0466 | 345661.8469 | 249714.4006 | 177893.1592  | 325660.4165 | 254510.883  | 196228.744  | 25524.0209  |
| C11H25N2P2S    | 31299.52293 | 19243.78131 | 13780.542   | 27770.2093   | 29227.6645  | 37679.25126 | 37606.21658 | 50839.94509 | 69090.94205 | 116203.9953 | 24805.05017 | 84501.68049 | 42482.33174 | 50363.23302 | 63261.01654  | 238586.2697 | 184214.7237 | 68365.56437 | 101819.326  | 123836.9895 | 129307.1539 | 65510.4964  | 8016.941413  | 129178.7404 | 28928.8585  | 30477.93671 | 39416.73213 |
| C11H29N4O6P    | 2854254.573 | 7776230.754 | 8028953.003 | 8728645.094  | 8345883.366 | 4650372.164 | 713812.4316 | 7229044.863 | 8878297.155 | 1290738.6   | 1534041.446 | 4149874.578 | 3906344.435 | 1277718.219 | 8080035.424  | 6604266.531 | 2115741.871 | 4342085.59  | 772061.698  | 759448.2373 | 2093911.307 | 982877.3744 | 4979680.744  | 1236340.57  | 1260208.705 | 999331.7321 | 1060574.179 |
| C11H30ClO4P2S5 | 288070.8046 | 301801.219  | 268100.3842 | 202780.7195  | 245880.5199 | 227659.3756 | 278776.5555 | 242711.3877 | 247603.8694 | 286293.015  | 282735.7143 | 270332.5467 | 359832.4262 | 451687.9656 | 180824.0398  | 144460.1517 | 360810.3424 | 253929.7026 | 262899.1384 | 268019.0242 | 161125.7588 | 246855.0238 | 142018.2707  | 235934.0241 | 110812.4054 | 105741.0433 |             |
| C11H30N9O4P2S  | 135237.0628 | 71880.134   | 115077.5882 | 169268.808   | 103851.1249 | 130562.6423 | 158905.7926 | 100853.2993 | 178257.9418 | 135822.4187 | 100086.1072 | 201017.9369 | 68372.26109 | 185867.6636 | 52461.44078  | 72515.15509 | 73561.92196 | 44482.80397 | 227021.224  | 136316.8051 | 140231.5694 | 38086.09229 | 42570.66211  | 79172.29584 | 43465.80017 | 46629.12434 | 52504.9992  |
| C11H35CN8O5P2  | 479075.7402 | 231390.9144 | 348287.6358 | 389685.3458  | 355824.3145 | 293476.8768 | 482287.448  | 390705.4718 | 353437.4907 | 423904.0226 | 301153.4945 | 491552.2875 | 145625.8255 | 553208.4942 | 128233.7298  | 220116.506  | 421523.9004 | 387413.896  | 435772.6126 | 438308.9399 | 507282.1018 | 107011.7148 | 208396.5445  | 456368.6063 | 33569.98196 | 286145.8715 | 348639.7265 |
| C11H62O2S5S2   | 2562024.168 | 375682.0339 | 274575.5314 | 18397979.41  | 3191358.448 | 134427.0518 | 2136015.529 | 1276343.411 | 623812.4229 | 1360357.31  | 86341.4463  | 577231.9274 | 771396.0628 | 125701.195  | 1053882.719  | 2901903.153 | 404355.1191 | 963695.4632 | 2147398.888 | 441224.2084 | 63439.04596 | 55351.1026  | 919604.5946  | 498617.5817 | 144604.5481 | 596621.889  | 777896.007  |
| C11H7N04       | 15905.93109 | 13104.75688 | 16000.1729  | 136365.4185  | 18091.78274 | 13443.50578 | 14455.39917 | 18853.93049 | 14477.33064 | 14291.374   | 19853.75241 | 14398.79281 | 13870.71068 | 15856.70642 | 21491.62378  | 13032.19899 | 14148.48208 | 15253.52741 | 17116.09306 | 150706.0398 | 14754.65913 | 108505.3346 | 138346.8828  | 48201.43387 | 24251.85168 | 19558.3571  | 24271.70179 |
| C11H7N04P2     | 750787.2467 | 414283.8068 | 343323.8208 | 1008902.617  | 115507.2178 | 352626.2415 | 370610.4763 | 33947.05235 | 312933.3698 | 326960.004  | 166490.1652 | 45347.06058 | 50311.74487 | 40263.3705  | 54836.85145  | 60973.52853 | 54672.54741 | 51295.86322 | 121345.9496 | 54399.11556 | 67439.77517 | 47490.12596 | 31096.92902  | 48860.14915 | 41491.61187 | 221474.358  | 45511.84074 |
| C11H9N02       | 27664052.5  | 182952926.2 | 71680.9022  | 264806363.8  | 262384691.1 | 163688552   | 20547.5988  | 32571548.27 | 81239.375   | 223498934   | 254736957.5 | 4495411.267 | 228276285.4 | 213486183.3 | 159499985.9  | 168373302.7 | 90944938.43 | 839441.971  | 29264573.4  | 364548959.9 | 1720687.29  | 184414239.3 | 259568200.7  | 123648742.6 | 62867.30709 | 144121732.5 | 86288223.8  |
| C12H10N6O      | 22355.39453 | 32658.59462 | 23372.6205  | 100658.3995  | 30296.05224 | 42736.45749 | 134067.2103 | 192579.5467 | 76794.81208 | 582708.8232 | 633475.5502 | 688378.8539 | 51467.28263 | 630416.3207 | 70697.85308  | 51622.53044 | 48016.52149 | 46289.37047 | 185092.7514 | 47956.0691  | 134097.7857 | 49866.31422 | 49524.45809  | 265097.3443 | 980073.3022 | 1444728.087 | 92770.44201 |
| C12H10P2       | 187458.6117 | 154388.3312 | 115823.7147 | 118871.0972  | 117123.6704 | 103335.3997 | 115429.3859 | 120884.4074 | 105728.007  | 119295.8438 | 127254.1515 | 272202.7992 | 221031.189  | 32152.8255  | 4177634.391  | 3127201.032 | 3732701.708 | 4947647.169 | 130338.6135 | 156883.1652 | 136969.2505 | 9319784.678 | 23974250.58  | 1382626.076 | 235433.671  | 712800.9667 | 665199.5413 |
| C12H11N5O2P2   | 3001520.625 | 197854.756  | 195679.848  | 192306.212   | 1844559.309 | 1846326.093 | 1979222.691 | 2076589.321 | 253795.276  | 246978.845  | 2202557.267 | 689784.8763 | 2386049.964 | 1589942.901 | 2603248.1    | 2389074.356 | 2506169.797 | 2187795.947 | 2531349.832 | 2538645.742 | 1923245.852 | 2586445.872 | 2326260.649  | 2695132.146 | 1806531.15  | 307690.0885 | 297065.0885 |
| C12H12O15P2    | 180882.7887 | 111095.911  | 167539.9424 | 200994.024   | 178866.1066 | 185440.1007 | 240706.7081 | 134330.9754 | 181363.065  | 199534.8818 | 154972.5729 | 247010.5544 | 459979.7162 | 351278.931  | 73754.85923  | 1212456.546 | 267630.1927 | 202423.9155 | 201073.8083 | 179594.8034 | 236246.0352 | 57394.48873 | 79573.25316  | 214488.325  | 12953.61574 | 173055.957  | 161076.289  |
| C12H13BrC2O4S2 | 462339.4265 | 527411.1039 | 457687.1945 | 44143.878    | 561671.3016 | 258516.5367 | 441657.3683 | 590927.7505 | 392128.96   | 612416.5846 | 366110.7606 | 870666.3323 | 120999.429  | 4148096.839 | 4894310.3106 | 481246.8221 | 332877.9633 | 509929.0486 | 68579.942   | 629948.2604 | 505249.2591 | 426760.0651 | 7099428.0815 | 523833.8381 | 520874.2906 | 41475.2994  | 404125.9616 |
| C12H14N4P2S    | 374825.6453 | 365282.4977 | 4130.54307  | 381001.946   | 235637.6417 | 211734.2952 | 194925.3927 | 339425.8192 | 40926.4037  | 423838.6066 | 423986.8433 | 533034.6515 | 612188.045  | 465599.2766 | 549307.0121  | 171768.2625 | 360070.3138 | 559983.6922 | 368046.119  | 528860.737  | 465599.0306 | 266800.874  | 194846.7465  | 610912.1105 | 437233.5789 | 88932.04683 | 270569.4253 |
| C12H14N6O3     | 776938.0994 | 594853.4712 | 1214640.631 | 107622.515   | 100108.867  | 1414962.248 | 117633.75   | 100773.5485 | 902946.7577 | 1017609.075 | 1187245.771 | 102239.222  | 1064938.034 | 1355683.042 | 960851.2301  | 414563.2604 | 642567.1192 | 33279.3307  | 152880.3616 | 1156185.758 | 751576.2759 | 542875.6107 | 517262.3502  | 661354.0515 |             |             |             |
| C12H15N5O2S    | 212293.31   | 1205257.042 | 2411226.262 | 267639.527   | 1800639.066 | 2317531.909 | 291591.6639 | 212024.994  | 1961793.984 | 245028.733  | 155762.488  | 2598682.694 | 2652376.746 | 286746.748  | 912651.2718  | 207282.172  | 136978.79   | 591078.3284 | 305107.389  | 1621836.854 | 2254537.624 | 751944.1068 | 922576.346   | 177939.802  | 241439.539  | 936875.2554 | 160012.1693 |
| C12H15N7O      | 5429.0793   | 57037.3696  | 11000.1729  | 146442.6217  | 108230.457  | 103522.1253 | 10508.2474  | 104322.1253 | 10498.504   | 29938.05623 | 102680.3133 | 117120.4422 | 103557.3306 | 98647.49948 | 17173.2115   | 77119.25057 | 19908.08536 | 59967.9565  | 40520.1349  | 116846.6306 | 77663.9565  | 40327.70716 | 96960.13045  | 61023.81463 | 9148.39958  |             |             |
| C12H16CN5O3    | 1257524.011 | 347061.5603 | 2037398.325 | 3461557.493  | 879688.0391 | 1342424.113 | 1140349.123 | 119717.279  | 498080.298  | 1292880.011 | 179327.313  | 1350121.344 | 1011231.424 | 1784849.669 | 498584.0523  | 675764.6466 | 691957.8579 | 331783.2738 | 2966309.979 | 1793969.699 | 1334139.419 | 2110848.041 | 1075252.948  | 1346016.028 | 598955.4247 | 1579810.829 | 1940848.388 |
| C12H16O4       | 4269034.52  | 2366254.77  | 426892.162  | 465089.426   | 4607307.138 | 4810816.185 | 3996640.033 | 9236301.268 | 482565.477  | 3664104.553 | 343596.646  | 13525319.94 | 3607256.48  | 2719795.803 | 661645.66    | 5181155.621 | 1214250.361 | 3473458.348 | 3685300.529 | 3286572.178 | 7888952.977 | 5281920.11  | 3725627.782  | 7330439.289 | 4919622.006 | 432300.645  |             |
| C12H16O5       | 7277002.855 | 7701370.774 | 5678619.389 | 2669871.1454 | 5469461.194 | 1176701.805 | 576051.911  | 723952.951  | 1028952.909 | 137703.972  | 240920.913  | 8686600.91  | 730759.554  | 3680933.482 | 1413545.003  | 740689.449  | 4806778.59  | 1150366.24  | 1409621.688 | 3114842.006 | 2853338.828 | 731538.1349 | 543141.8542  | 525896.8686 | 706100.0389 | 872658.0906 | 895006.8582 |
| C12H16O5S      | 7462770.542 | 8072066.551 | 566445.5878 | 263314.201   | 5389843.464 | 1142273.431 | 6147539.285 | 7753755.895 | 140155.431  | 1406022.546 | 266671.4154 | 9455315.02  | 9017054.335 | 8990197.564 | 130116.317   | 682642.9737 | 5766879.672 | 1260951.977 | 1393497.673 | 3174219.613 | 3204885.29  | 58313.089   | 6295939.0739 | 404594.3321 | 1170655.261 | 907908.734  | 994759.1812 |
|                |             |             |             |              |             |             |             |             |             |             |             |             |             |             |              |             |             |             |             |             |             |             |              |             |             |             |             |

|                |             |              |             |             |             |             |             |             |             |               |             |               |              |             |              |             |             |             |             |             |             |             |              |             |              |             |             |             |
|----------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|---------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|
| C1H232N6O5S    | 79458.9271  | 205725.7886  | 130636.645  | 81380.77658 | 73714.61342 | 78891.37251 | 75750.05141 | 77232.21041 | 87527.18445 | 58801.68578   | 65813.66671 | 76082.10674   | 72821.13774  | 59429.64358 | 57906.59162  | 2976167.593 | 1812209.527 | 62553.85746 | 61252.51454 | 56180.57172 | 64690.54997 | 64988.95621 | 65466.31455  | 58816.92659 | 57847.2017   | 58793.88201 | 63103.45986 |             |
| C1H232N6O6P2   | 329149.0693 | 406060.6509  | 3920473     | 502423.5895 | 284015.2701 | 312369.4831 | 682779.8069 | 229010.1465 | 190231.432  | 309979.1832   | 39768.62546 | 302992.041    | 203215.9665  | 230919.6185 | 197601.4219  | 236717.3151 | 326659.184  | 61081.564   | 105643.4733 | 241952.5589 | 453690.3769 | 150371.9017 | 99125.23695  | 266421.7823 | 214871.677   | 421028.4595 | 458624.5813 |             |
| C1H233N8O2P    | 54977.35663 | 65161.19032  | 888153.2873 | 52370.94959 | 45543.11144 | 642172.6314 | 752586.188  | 43177.62328 | 61638.86745 | 37740.37403   | 420948.2719 | 55599.34524   | 64646.90317  | 63982.17619 | 60244.61495  | 45809.26976 | 45894.65995 | 47301.32523 | 42962.65833 | 48387.39212 | 48416.08088 | 51757.67879 | 46604.43855  | 43105.15993 | 51385.80849  | 38039.73437 | 41689.3909  |             |
| C1H237N10O0P3S | 30758.1553  | 656969.7267  | 554462.4504 | 219863.979  | 454125.4786 | 311429.2495 | 521657.1372 | 842577.9485 | 29893.9488  | 31817.7824    | 210948.8708 | 332612.4522   | 217561.7261  | 332432.0052 | 246305.2258  | 334968.8751 | 294187.5201 | 269759.7187 | 17112.2707  | 213592.3597 | 771070.2529 | 309219.13   | 256721.9682  | 116999.7151 | 48241.9121   | 534984.2541 | 302652.6532 |             |
| C1H244C2N3OP   | 98587.29961 | 662993.776   | 104584.1963 | 106594.768  | 1664490.765 | 303506.0711 | 1403079.963 | 2672730.022 | 2800498.116 | 2844206.422   | 4300307.958 | 4619147.805   | 4570359.179  | 8234594.379 | 157991.18.58 | 6577811.669 | 6250782.29  | 1213931.572 | 1730134.717 | 3909784.03  | 5633958.821 | 14701930.52 | 554643.6025  | 5692840.444 | 4138833.285  | 8102385.377 | 408922.7747 |             |
| C12H68N07P2    | 756639.478  | 4356233.5934 | 706007.6543 | 671071.8795 | 730862.672  | 617655.431  | 897222.283  | 560168.1237 | 679048.1806 | 677267.2264   | 528777.631  | 1088342.894   | 264055.2774  | 1200483.885 | 335238.2311  | 429396.7586 | 906387.5036 | 606587.3822 | 709980.3465 | 703956.4841 | 821851.3586 | 251414.686  | 362225.5454  | 898376.7406 | 57716.19025  | 655109.2161 | 805922.7747 |             |
| C12H66O2S      | 3523629.771 | 4136504.339  | 106594.768  | 1664490.765 | 1578252.54  | 303506.0711 | 1403079.963 | 2672730.022 | 2800498.116 | 2844206.422   | 4300307.958 | 4619147.805   | 4570359.179  | 8234594.379 | 157991.18.58 | 6577811.669 | 6250782.29  | 1213931.572 | 1730134.717 | 3909784.03  | 5633958.821 | 14701930.52 | 554643.6025  | 5692840.444 | 4138833.285  | 8102385.377 | 408922.7747 |             |
| C12H66O2S      | 3331606.72  | 4160143.262  | 1050122.924 | 1539442.204 | 1520356.365 | 615441.9867 | 1329387.672 | 2547312.74  | 2685303.701 | 2685377.979   | 4417448.237 | 4466233.341   | 4744666.741  | 168050.396  | 15465703.73  | 6652654.226 | 6006172.14  | 11658777.98 | 695640.459  | 5649342.492 | 3483882.819 | 5604678.247 | 14552518.72  | 5548642.27  | 5555880.308  | 10835740.58 | 9246636.37  |             |
| C12H7NO5S      | 227652.9285 | 67841.81952  | 57750.31803 | 120176.4203 | 156479.4847 | 218585.9276 | 56355.38589 | 56053.22259 | 44776.71276 | 193011.1854   | 68699.43456 | 36333.85361   | 151417.6905  | 148292.9199 | 84526.54785  | 743144.7708 | 44300.64779 | 39795.17836 | 434970.8538 | 123704.462  | 44635.25113 | 528484.7989 | 668490.6301  | 899057.6831 | 40666.10392  | 658922.1221 | 121307.491  |             |
| C12H7NSO6S     | 346610.2607 | 13721.37854  | 12407.21716 | 314757.6775 | 186019.1434 | 182482.954  | 185136.0975 | 177877.9762 | 14399.21254 | 438278.5736   | 397868.3757 | 15237.10106   | 158965.374   | 162648.5964 | 146854.8297  | 228134.0347 | 16068.24336 | 118737.3274 | 378463.6986 | 471680.9945 | 14347.98406 | 439179.0377 | 581204.6688  | 289659.1873 | 14315.23092  | 30346.3325  | 17014.08502 |             |
| C13H13N7O5S    | 251993.2558 | 310725.3693  | 367455.4486 | 325962.1544 | 301913.4337 | 340247.5051 | 324920.3089 | 253368.1272 | 290266.8018 | 313206.4042   | 483558.1675 | 237074.1594   | 456677.546   | 305628.618  | 283372.0523  | 237074.5297 | 185929.5183 | 385265.0237 | 283687.0307 | 281189.3625 | 318290.0868 | 115188.2703 | 120606.8908  | 173784.6871 | 310225.9444  | 245387.2378 | 223190.3095 |             |
| C13H14NO2PS    | 14801.68657 | 15159.33795  | 12646.48714 | 12441.86738 | 15377.82397 | 14204.29277 | 11868.89709 | 57874.97606 | 12189.37971 | 10815.00997   | 9197.451289 | 10655.30653   | 10251.80999  | 9598.354547 | 196802.7     | 21315.09757 | 15073.94808 | 55071.41453 | 9189.75205  | 34574.93221 | 17360.59252 | 9883.065694 | 11348.45739  | 9312.776307 | 9266.6822    | 64497.76104 | 46406.72078 |             |
| C13H14NO4O2    | 80494.63871 | 33370.96039  | 86467.1269  | 331173.6788 | 74270.86391 | 156752.1261 | 120392.3444 | 120716.0493 | 116657.8569 | 106663.6277   | 91870.78075 | 99504.77785   | 49353.43568  | 95439.9657  | 69332.93906  | 57542.51952 | 70763.17246 | 71299.6659  | 75229.94518 | 65927.56388 | 78945.52921 | 106324.8394 | 76989.31955  | 115355.0837 | 87370.40392  | 67121.14683 | 84119.7892  |             |
| C13H14NO4O6    | 54225.26918 | 39802.23994  | 14322.01111 | 23136.11179 | 10992.6996  | 40495.1074  | 9745.62325  | 18131.29898 | 76159.11813 | 23915.1756    | 11026.0073  | 82502.89534   | 29851.20913  | 63886.19267 | 106685.0232  | 181941.3024 | 130665.0171 | 61527.46521 | 9538.62318  | 18588.1458  | 11892.15753 | 150150.9928 | 362045.4047  | 44788.28799 | 12885.90483  | 27787.97632 | 10673.86538 |             |
| C13H14N6       | 8369.391361 | 6829.595245  | 4546.786172 | 6539.389275 | 8026.282332 | 5826.877872 | 12843.3605  | 19624.4097  | 22069.35783 | 46620.11617   | 7412.109235 | 44667.50702   | 42990.75877  | 40816.70171 | 23185.01952  | 46171.94412 | 13506.493   | 28530.691   | 34329.80216 | 25044.50998 | 38453.36201 | 15668.63627 | 4046.955421  | 32906.32382 | 40628.52297  | 13960.98674 | 11995.32774 |             |
| C13H14O3       | 11530668.19 | 129101.09.21 | 9987941.059 | 7125593.453 | 8799129.254 | 4705421.202 | 9972335.514 | 6968787.039 | 562964.894  | 87134.496.027 | 3046560.574 | 7264663.711   | 6551717.845  | 7339319.103 | 9724389.051  | 6262344.988 | 4901053.538 | 70880.6326  | 262565.8012 | 4792021.522 | 5347256.238 | 2821376.931 | 11466629.927 | 349236.138  | 3674545.889  | 7879429.37  | 3489201.616 |             |
| C13H16N10O     | 8746985.521 | 6708103.754  | 1132618.51  | 8142731.04  | 10429730.89 | 9918182.354 | 9174715.839 | 14206398.2  | 11784560.69 | 979634.341    | 7271166.875 | 10591212.54   | 570082.466   | 8879813.37  | 773900.964   | 782621.518  | 12875142.67 | 4611575.543 | 7277107.448 | 760131.926  | 1062666.14  | 9535221.979 | 7109136.16   | 11369688.88 | 9940027.61   | 10804729.57 | 9472727.277 |             |
| C13H16N2O5S    | 8121423.871 | 3168365.837  | 43082.25609 | 259609.79   | 4722724.148 | 1284677.555 | 2390370.186 | 8488538.073 | 721262.2486 | 4049673.65    | 5082329.616 | 3217416.619   | 530959.526   | 146268.406  | 5799829.006  | 204655.979  | 1843454.721 | 634043.595  | 631662.368  | 45342       | 301181.1457 | 485207.8043 | 377462.8598  | 90856.0695  | 2331925.428  | 22102.1769  | 368291.569  |             |
| C13H18N4O7     | 256629.2374 | 2766655.771  | 150628.1074 | 130118.801  | 90999.8292  | 91427.86543 | 55151.59444 | 94733.30705 | 121620.2404 | 71854.4194    | 29955.91074 | 163639.0883   | 161416.8626  | 116427.9074 | 118526.0434  | 1192059.429 | 1331103.897 | 100219.1400 | 249841.641  | 161637.3    | 11231.0153  | 137709.9046 | 199878.7914  | 199708.396  | 124755.045   | 130809.662  | 154709.2171 |             |
| C13H18N6O3     | 760939.36   | 695325.4751  | 189021.8242 | 992841.0893 | 1359721.166 | 1148685.144 | 717970.7922 | 1182117.105 | 96600.258   | 54258.9374    | 252035.4371 | 291287.4213   | 768525.1588  | 1104251.831 | 649995.2201  | 658453.2189 | 626872.8222 | 557692.1066 | 273846.4399 | 817624.9391 | 918906.8635 | 715078.5698 | 122390.001   | 804129.0577 | 89309.004    | 1076678.454 | 1066778.454 |             |
| C13H19NSO4     | 747139.3059 | 309845.9893  | 105343.8451 | 491831.4284 | 478989.8508 | 686520.7693 | 581944.7041 | 452832.8713 | 437759.2557 | 582066.3577   | 376607.2287 | 186086.3527   | 13231.38.546 | 138040.442  | 273493.5389  | 22744.9027  | 96380.1876  | 124690.1962 | 780947.483  | 1246699.987 | 121137.653  | 158548.3364 | 28531.65254  | 487317.2706 | 598041.8348  | 925419.8077 | 1718547.739 |             |
| C13H19N7O2     | 38771.5636  | 299847.6924  | 180344.8421 | 612933.1396 | 218264.2307 | 507497.0185 | 54525.7615  | 507497.0185 | 218264.2307 | 507497.0185   | 218264.2307 | 507497.0185   | 218264.2307  | 507497.0185 | 218264.2307  | 507497.0185 | 218264.2307 | 507497.0185 | 218264.2307 | 507497.0185 | 218264.2307 | 507497.0185 | 218264.2307  | 507497.0185 | 218264.2307  | 507497.0185 | 218264.2307 | 507497.0185 |
| C13H20N4O7     | 316525.4961 | 98704.63873  | 298575.0467 | 32136.2549  | 357738.8082 | 340957.7136 | 281550.9183 | 196060.3048 | 267525.659  | 245659.597    | 228106.5792 | 367293.0781   | 179437.7138  | 220015.5752 | 73243.35481  | 9707.38403  | 108098.8123 | 51681.1125  | 369172.862  | 342113.9149 | 349197.244  | 217850.8353 | 24534.8376   | 121555.6846 | 84544.49739  | 92882.17054 | 92882.17054 |             |
| C13H22O4       | 869036.9968 | 84704.53878  | 86467.1269  | 331173.6788 | 1282489.945 | 518359.7614 | 261549.0398 | 102086.967  | 97512.6763  | 65375.8889    | 91751.72.63 | 65375.8889    | 91751.72.63  | 65375.8889  | 91751.72.63  | 65375.8889  | 91751.72.63 | 65375.8889  | 91751.72.63 | 65375.8889  | 91751.72.63 | 65375.8889  | 91751.72.63  | 65375.8889  | 91751.72.63  | 65375.8889  | 91751.72.63 | 65375.8889  |
| C13H22O4       | 534703.9249 | 758353.275   | 591103.7763 | 804222.5372 | 487053.6852 | 999851.9472 | 511736.7551 | 610857.3398 | 645149.2451 | 430919.5512   | 68927.8193  | 479094.0652   | 532020.4614  | 373115.7761 | 531340.7339  | 496888.3935 | 47225.6791  | 438131.0501 | 62691.7582  | 293812.8486 | 529697.055  | 322400.8988 | 258581.547   | 340496.0935 | 538278.1635  | 666170.2785 | 502141.6947 |             |
| C13H23NSO9S2   | 113218.9249 | 25252.59661  | 10228.13953 | 109229.4461 | 115681.8821 | 113384.8546 | 85393.79203 | 74299.59898 | 118284.9651 | 92570.15531   | 56521.55192 | 122096.2656   | 110319.947   | 74252.53394 | 62490.9895   | 77519.47371 | 76080.78778 | 8721.92551  | 194367.9977 | 156977.7587 | 147056.485  | 119550.8232 | 158555.8314  | 21539.9396  | 122215.9477  | 74155.91199 | 67019.67384 |             |
| C13H24N4O3P3   | 386971.8187 | 273502.7866  | 84995.66706 | 57139.19308 | 47910.80284 | 89210.20894 | 62890.63555 | 44483.97817 | 10126.7726  | 42744.33014   | 362964.584  | 87134.496.027 | 3046560.574  | 7264663.711 | 6551717.845  | 7339319.103 | 9724389.051 | 6262344.988 | 4901053.538 | 70880.6326  | 262565.8012 | 4792021.522 | 5347256.238  | 2821376.931 | 11466629.927 | 349236.138  | 3674545.889 |             |
| C13H24N6P2S2   | 384288.527  | 361752.88    | 190001.5822 | 168633.0911 | 346713.0886 | 107675.7667 | 185794.4039 | 45001.9829  | 168866.546  | 113388.1188   | 70333.81257 | 521002.4351   | 86580.74019  | 395651.3541 | 59393.40840  | 357278.9035 | 101069.982  | 42098.2027  | 49653.27317 | 126833.9535 |             |             |              |             |              |             |             |             |

|                  |             |             |              |             |             |              |             |             |             |             |              |             |              |             |             |              |             |             |             |             |             |             |              |             |              |             |             |
|------------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|
| C14H29N8O5P      | 1043711.977 | 2205246.585 | 1215859.991  | 2592209.334 | 2883206.928 | 2436490.3    | 1911997.334 | 1528608.418 | 1976330.814 | 2172917.116 | 1556636.156  | 898038.6708 | 790127.2307  | 1100365.886 | 2138488.288 | 1370539.335  | 2219823.13  | 1120935.009 | 1799812.697 | 2157723.257 | 1481157.814 | 1198188.179 | 924051.7975  | 1479601.802 | 1305554.496  | 147528.971  | 1631061.685 |
| C14H30BCIN2O3P2S | 259498.1262 | 110151.4286 | 287552.447   | 267011.9567 | 265497.898  | 247919.8318  | 295796.399  | 220994.1427 | 241905.1971 | 242603.618  | 153144.9146  | 485939.3733 | 199781.0434  | 261721.0969 | 78242.55703 | 118466.3746  | 138159.2499 | 88949.12784 | 446852.6325 | 319498.9359 | 293730.3581 | 377808.7095 | 135866.1987  | 209071.3913 | 125146.3263  | 97484.01343 | 97464.65348 |
| C14H33O04S       | 11073868.65 | 724583.8498 | 8590106.237  | 103807560.6 | 11242348.18 | 6116729.433  | 5737859.668 | 2714998.988 | 4666680.386 | 7271562.096 | 5228873.264  | 6886658.301 | 690806.5456  | 5795190.513 | 7634058.261 | 7572365.223  | 6541265.506 | 5524031.685 | 8549476.833 | 9225495.572 | 6876945.503 | 59461.81.71 | 7187620.519  | 3737943.885 | 6590263.7897 | 13335063.99 | 7634506.774 |
| C14H31CINO3P3S2  | 32123.08649 | 64266.76334 | 37017.29257  | 56055.03165 | 57910.83413 | 36116.19971  | 38950.4114  | 52463.80988 | 48259.37942 | 50797.80344 | 31912.42107  | 54780.08618 | 88186.87373  | 94460.95632 | 40943.69998 | 116378.972   | 75146.16856 | 111131.3553 | 59719.27521 | 70946.61623 | 50700.10043 | 22862.55402 | 145085.4908  | 41608.56966 | 44205.88122  | 38750.2756  | 37572.05499 |
| C14H31NO         | 362186.079  | 3129168.191 | 268077.917   | 40503.53454 | 6115648.783 | 2915639.425  | 2204616.74  | 3640496.898 | 3275862.994 | 267221.9451 | 3929228.2392 | 3375862.988 | 3378697.594  | 254770.377  | 409403.969  | 2493073.689  | 2912949.354 | 203876.111  | 4938835.58  | 3720442.896 | 8571660.441 | 514848.558  | 217262.269   | 1653528.921 | 1860257.053  | 2496755.787 | 2200832.159 |
| C14H31NO2        | 2626857.283 | 2027232.81  | 1396689.671  | 2344888.909 | 2651328.481 | 1935609.356  | 220237.367  | 1902780.449 | 2172001.979 | 78689.1354  | 1981097.314  | 209169.677  | 2210207.818  | 219452.510  | 1805369.35  | 14754543.029 | 1395451.5   | 1760899.441 | 2228849.61  | 3732658.571 | 2300354.558 | 2384058.454 | 2272462.269  | 1653528.921 | 1860257.053  | 2496755.787 | 2200832.159 |
| C14H31NO3        | 920930.4246 | 476391.8282 | 171526.7914  | 586910.4315 | 845853.9859 | 422227.5685  | 785207.9215 | 970136.527  | 672923.5102 | 89934.1778  | 45168.709    | 1001343.867 | 659778.0314  | 17476.0813  | 680136.4232 | 547662.4634  | 738415.0457 | 313797.6893 | 108589.1122 | 949051.0212 | 904741.9791 | 996398.879  | 255680.0924  | 507613.5623 | 792495.7528  | 862062.7581 | 850146.2707 |
| C14H31NO9O9      | 91582.82896 | 60065.40664 | 123438.7705  | 142432.0122 | 127933.9011 | 154186.6933  | 97817.16567 | 138092.0926 | 80949.31552 | 89686.27903 | 97431.85789  | 77157.40202 | 147500.4975  | 162385.9643 | 79727.36447 | 123697.5397  | 73230.63974 | 45068.75447 | 137197.3534 | 181997.0706 | 151136.1367 | 40064.80061 | 13243.67464  | 25912.83765 | 109894.8188  | 32626.51985 | 27564.3534  |
| C14H32CIN6O3P    | 66752.17156 | 105286.1565 | 198363.2283  | 329764.1813 | 195463.3927 | 227739.9267  | 56563.81276 | 116984.8592 | 149093.4191 | 174806.2099 | 327773.1     | 148974.5112 | 143939.5303  | 23717.69214 | 94135.17817 | 204180.8854  | 116375.9108 | 125675.8487 | 125077.1215 | 175799.0613 | 170667.7641 | 84773.26671 | 141065.2721  | 130764.5383 | 274007.0251  | 70870.65108 | 31931.12728 |
| C14H32NI1O09     | 495192.1947 | 841851.3197 | 1023445.217  | 375158.0189 | 1892450.147 | 1974856.303  | 814896.9018 | 178191.6205 | 287189.1227 | 153493.1579 | 116852.1011  | 93328.1086  | 188445.124   | 608959.3581 | 1950740.495 | 242114.9849  | 128175.2627 | 2380695.547 | 27555.8701  | 110306.897  | 79836.18998 | 72158.57905 | 140017.1746  | 65444.27344 | 144626.2338  | 20770.6452  | 622788.408  |
| C14H33NO4P       | 680739.2851 | 418753.9576 | 1740761.843  | 2842196.619 | 305257.2895 | 2445498.28   | 2325601.883 | 2178938.358 | 265585.165  | 1866740.514 | 383158.1212  | 1188039.605 | 21821.16159  | 95870.86774 | 191796.2964 | 1098317.454  | 1074486.25  | 118750.1772 | 1077997.658 | 871341.2904 | 1789992.903 | 1134291.655 | 248349.9029  | 220085.2075 | 2029987.007  | 2044909.579 | 452213.168  |
| C14H36NO4P2      | 3023105.278 | 179451.8626 | 4217794.356  | 4168419.727 | 275378.1449 | 3975794.938  | 162127.3048 | 768417.3831 | 213159.1539 | 2780570.656 | 3046769.053  | 2331192.544 | 2142458.659  | 2285280.353 | 452104.0381 | 66575.542    | 464297.0225 | 411449.9496 | 2744667.749 | 294852.904  | 514907.7819 | 2172506.526 | 508030.407   | 450965.1369 | 2777019.826  | 3188525.051 | 304905.8586 |
| C14H38NI1O03S    | 364280.9758 | 237908.16   | 245613.3935  | 243102.9112 | 282397.397  | 172368.2124  | 223756.4711 | 314914.5838 | 253838.2234 | 277601.0795 | 114005.5548  | 50597.68769 | 177307.8201  | 125208.3959 | 173320.1947 | 225492.8792  | 223522.7256 | 40039.43143 | 149494.1731 | 32645.32927 | 170623.6354 | 141801.9552 | 88932.01169  | 371791.623  | 14710.6872   | 148981.1174 | 67225.8376  |
| C14H4CIN4P       | 1885351.766 | 86353.38821 | 81455.75373  | 1564301.267 | 1753599.709 | 1145399.35   | 564820.9789 | 880084.7148 | 54449.54656 | 1717269.278 | 1430088.056  | 35526.22148 | 1663024.015  | 1396231.112 | 808436.0863 | 1513949.614  | 205418.7838 | 732025.3299 | 185124.257  | 2356602.177 | 52698.3669  | 1643572.494 | 2188544.682  | 1266554.589 | 51209.2892   | 1362191.689 | 207031.0273 |
| C14H4NI1O0S2     | 422558.846  | 390252.9674 | 463506.1207  | 348642.5871 | 228233.1126 | 192496.2557  | 284479.5767 | 173251.4532 | 410991.9261 | 462495.1502 | 189244.074   | 490080.9952 | 4974470.0149 | 406667.5868 | 54431.4832  | 396247.5193  | 362293.881  | 548108.8108 | 323701.7603 | 461818.3726 | 420690.681  | 263968.147  | 295544.779   | 495648.8051 | 419405.4584  | 244523.6083 | 254215.1016 |
| C14H6NO3O4P      | 306450.775  | 2227746.514 | 2182426.858  | 1791635.008 | 1746959.051 | 1777093.698  | 2050374.356 | 2088189.307 | 2977827.687 | 2463329.616 | 26042130.88  | 584575.5509 | 2396676.463  | 1800764.646 | 256904.866  | 12495825.634 | 1948425.75  | 2789757.404 | 2878512.626 | 2023262.945 | 1880381.913 | 2866208.183 | 3638152.153  | 325684.3421 | 2521874.255  | 978194.1288 | 216166.354  |
| C14H7N8O0P       | 365778.4614 | 39095.9456  | 9632.008846  | 264620.8184 | 344687.9884 | 259630.571   | 160257.9094 | 60896.81862 | 135163.8788 | 289358.3458 | 60895.1786   | 15303.4895  | 348269.7967  | 317191.4212 | 84701.8111  | 42934.382    | 1711.14366  | 108371.58   | 298457.9427 | 435869.3143 | 12949.50273 | 328010.3013 | 274033.21174 | 225792.5525 | 12109.9974   | 229302.2915 | 12899.12621 |
| C14H9NP6S2       | 454831.2798 | 376970.95   | 395333.7108  | 42040.6934  | 310533.7708 | 368440.6808  | 431277.2751 | 372875.2979 | 44611.9832  | 147549.3278 | 41975.6027   | 201421.0935 | 295458.5133  | 398062.1912 | 578718.8216 | 32146.5414   | 32126.4616  | 468056.1427 | 485939.8446 | 372174.9293 | 395059.3169 | 372174.9293 | 735998.8785  | 596255.0273 | 405337.9118  | 432615.1033 | 452615.1033 |
| C14H9NP6S2       | 461600.2991 | 435289.03   | 417260.1773  | 415887.9602 | 453646.8542 | 409235.0747  | 420370.2598 | 389650.2453 | 463249.4031 | 417836.299  | 414610.7291  | 149978.6319 | 390322.2358  | 421063.942  | 62278.4664  | 48115.5532   | 343516.1471 | 486768.3464 | 686007.9475 | 484230.5478 | 326902.1706 | 452204.5476 | 711554.2907  | 59340.203   | 411959.887   | 310485.5497 | 471516.1954 |
| C15H10P2         | 28287.63258 | 9854.811262 | 25658.72853  | 100833.1805 | 40997.12575 | 10754.68318  | 68014.73555 | 9387.89748  | 9527.030609 | 31267.39116 | 16878.79347  | 10422.21097 | 8763.59058   | 10155.62448 | 10664.10911 | 9490.04147   | 1095.062485 | 10871.15661 | 10904.6539  | 11849.1351  | 12070.98487 | 9384.40205  | 10712.32188  | 9947.524083 | 10712.32188  | 29134.2471  | 8190.841031 |
| C15H11CIN5O4P    | 12601.28686 | 11896.51374 | 15393.72297  | 247664.3309 | 188230.0714 | 127015.7403  | 57459.09445 | 82962.6011  | 13903.23702 | 264313.1032 | 2134.14657   | 10106.39043 | 331764.096   | 27392.1112  | 85831.34913 | 165572.3073  | 10939.8577  | 72200.9995  | 283214.5862 | 33315.8692  | 14072.04421 | 276326.669  | 366066.681   | 150755.4744 | 14018.37466  | 165023.972  | 14905.6870  |
| C15H12N4O6P      | 11601.41417 | 11341.57972 | 10891.6328   | 12715.95113 | 11001.88021 | 10940.36823  | 10932.99243 | 11375.68307 | 11187.27833 | 12392.38322 | 12392.38322  | 11550.31649 | 36513.03576  | 15420.38202 | 169743.6259 | 656833.1989  | 12535.2444  | 13852.3444  | 11982.38674 | 12463.39269 | 18071.20021 | 26655.6205  | 107270.1593  | 115390.8546 | 40054.37769  | 14905.6870  | 14905.6870  |
| C15H14N8O        | 176218.7786 | 33525.32368 | 27830.42346  | 35532.06603 | 6743.06388  | 293323.4173  | 8016.1732   | 22890.14964 | 55847.19118 | 23284.05748 | 52807.20071  | 506619.7152 | 98454.10238  | 36970.64539 | 224881.427  | 226487.2983  | 189479.759  | 1700400.003 | 93902.02753 | 57380.99958 | 54925.22037 | 168578.116  | 11698.6849   | 7517.207036 | 36435.57154  | 124640.036  | 90728.7437  |
| C15H14O7S        | 146168.8809 | 19265.14653 | 17313.57719  | 20039.17445 | 17348.93693 | 14660.077302 | 18940.29686 | 13614.39117 | 12440.62629 | 29231.03638 | 14979.34579  | 13919.1451  | 19802.68789  | 24324.99435 | 21108.81088 | 24434.66988  | 12573.7136  | 10589.45992 | 57380.99958 | 54925.22037 | 168578.116  | 11698.6849  | 7517.207036  | 36435.57154 | 124640.036   | 90728.7437  | 90728.7437  |
| C15H16N2O6P2     | 146168.8809 | 303934.9031 | 275284.8824  | 240022.3864 | 81056.04314 | 132888.6887  | 132322.7901 | 259905.7084 | 54887.60501 | 335694.1625 | 292009.545   | 182601.0669 | 87988.15145  | 369690.8885 | 483534.7958 | 261446.9478  | 20827.25567 | 379602.1885 | 310406.7051 | 410441.2693 | 273858.2784 | 94766.19956 | 280325.4057  | 138344.6964 | 278233.9652  | 138004.353  | 197713.1022 |
| C15H18N4         | 751937.5044 | 59836.0279  | 176661.246   | 577973.7876 | 731719.5194 | 125182.0085  | 554037.994  | 717150.9995 | 597469.544  | 682562.251  | 29209.2334   | 352471.7849 | 437001.2599  | 435873.4254 | 1414494.758 | 13181.4878   | 7645.18.058 | 2645.18.058 | 7369.68632  | 747229.0808 | 1001436.134 | 756934.6371 | 366032.3533  | 266032.3533 | 356564.3421  | 313718.1473 | 313718.1473 |
| C15H19N7O5       | 570085.3491 | 41151.8323  | 583924.5642  | 634114.9743 | 592858.761  | 667752.7084  | 727686.6612 | 545061.0943 | 30771.5526  | 600298.2669 | 584575.7876  | 580203.1055 | 933270.4159  | 549427.2719 | 294679.8634 | 747229.0808  | 1001436.134 | 756934.6371 | 366032.3533 | 266032.3533 | 356564.3421 | 313718.1473 | 313718.1473  | 313718.1473 | 313718.1473  | 313718.1473 | 313718.1473 |
| C15H20N5O2P      | 154390.5668 | 178261.6996 | 1267970.9201 | 130009.0169 | 128442.7779 | 130892.599   | 101720.6111 | 166902.6923 | 124710.1506 | 122739.8439 | 191291.0215  | 124318.8644 | 204331.0431  | 159450.0637 | 183536.0917 | 191574.4998  | 192078.3265 | 177667.034  | 135107.8531 | 249247.5957 | 184263.3408 |             |              |             |              |             |             |

|                |             |             |             |             |             |             |              |             |             |             |             |             |              |             |              |             |             |              |             |             |             |             |             |             |             |             |             |             |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| C1G630N204     | 90201.87541 | 92783.26491 | 56556704.32 | 94001.21686 | 102552.1635 | 42698029.13 | 405522236.93 | 80831.13659 | 90338.4041  | 74807.28806 | 55474861.42 | 62975.90708 | 67622.51287  | 74056.70595 | 69943.67225  | 68492.99792 | 74122.90866 | 66903.06871  | 84929.26311 | 92238.14067 | 80023.12679 | 74847.41042 | 58839.05352 | 73192.0882  | 95851.73032 | 85887.23828 | 72386.3075  |             |
| C1G63002       | 886364.168  | 1353202.738 | 569514.6244 | 506721.6544 | 606576.2634 | 486911.4246 | 663108.1845  | 546793.1666 | 651068.0516 | 397561.0358 | 390865.4164 | 684376.7211 | 688828.3519  | 768318.7007 | 717861.0954  | 1932503.718 | 191872.661  | 816105.7011  | 394169.3308 | 647762.6231 | 497095.7705 | 1007871.679 | 1201587.399 | 1307431.479 | 1175051.522 | 538558.6837 | 561761.1945 |             |
| C1G6302        | 4208623.52  | 4968823.363 | 2541553.405 | 3169788.68  | 3587736.282 | 2610523.805 | 3083097.49   | 3658327.127 | 3907382.105 | 2597394.703 | 3212668.187 | 2857327.712 | 3114770.729  | 3005038.234 | 3757251.567  | 2749221.818 | 2547529.79  | 4610233.928  | 2453714.814 | 3141867.937 | 2636600.545 | 366021.114  | 4319688.49  | 4684047.294 | 3651961.575 | 2424424.977 | 2733874.239 |             |
| C1G63035       | 651684.5697 | 536188.769  | 512050.482  | 17403452.91 | 691011.3268 | 369810.56   | 371639.1543  | 519185.5338 | 42188.1257  | 68738.5854  | 391557.7718 | 62191.2573  | 801962.5368  | 40190.7662  | 292151.5801  | 364162.3924 | 299609.7254 | 6588332.621  | 401542.3259 | 769404.975  | 858244.972  | 468540.1312 | 320740.0834 | 269522.3356 | 342300.2379 | 808616.8137 | 322480.1961 |             |
| C1G63N02       | 972506.784  | 7255099.181 | 939356.9617 | 1600102.026 | 1179592.058 | 77572.1562  | 370158.7779  | 589977.2034 | 588430.4017 | 608382.9418 | 8271.12883  | 211273.0393 | 305122.2342  | 443479.9002 | 70571.5023   | 1202599.757 | 75715.23945 | 480882.8359  | 119093.367  | 764946.893  | 464093.4094 | 699784.706  | 768091.1889 | 3707158.476 | 760193.293  | 741648.3084 | 561607.2888 |             |
| C1G63N404P5    | 3804285.092 | 2786894.17  | 1804969.839 | 18923036.96 | 1776909.409 | 1712398.554 | 2466092.765  | 2601722.977 | 208335.851  | 1886984.24  | 2168203.549 | 742737.6261 | 348759.186   | 1867164.915 | 1794057.438  | 1408997.166 | 2160800.852 | 2058153.561  | 1711445.405 | 1558906.312 | 1202498.479 | 2282328.325 | 3080627.154 | 1675860.159 | 2310221.948 | 2537693.234 | 1250471.161 |             |
| C1G63N10035    | 2505403.376 | 2291839.094 | 1019318.696 | 3223882.243 | 3308546.816 | 2990663.512 | 996629.4088  | 2548455.991 | 2547834.684 | 494875.5112 | 1297449.839 | 1609967.473 | 1106380.391  | 1515799.338 | 3192946.808  | 2974606.866 | 149115.601  | 1795457.78   | 1466354.48  | 2225499.026 | 1833541.897 | 1358985.78  | 1043916.431 | 1875377.497 | 1458479.164 | 1360636.059 | 911644.0332 |             |
| C1G63N110045   | 10282098.16 | 5882512.447 | 1986698.539 | 6067952.019 | 1166307.261 | 5690948.459 | 2004284.79   | 4963901.802 | 4819309.205 | 765605.7958 | 2980252.962 | 1659192.474 | 2815583.504  | 1179253.382 | 5205484.083  | 5023614.488 | 5373234.215 | 1504044.872  | 4157073.523 | 3810493.406 | 1575654.398 | 4834666.596 | 3422676.922 | 1026271.11  | 5424868.932 | 519677.0911 | 1685626.167 |             |
| C1G634045      | 2095977.539 | 1821435.755 | 1619448.684 | 1308856.29  | 1707949.919 | 1476122.269 | 1483759.348  | 1939599.926 | 1220552.361 | 3282926.146 | 1593138.161 | 1330165.549 | 2590086.463  | 1096938.088 | 1010967.055  | 1666291.064 | 1269444.179 | 1758045.262  | 1179948.333 | 3614043.329 | 1610441.212 | 1396497.743 | 1635271.326 | 1435603.342 | 1635137.351 | 2192687.296 | 1030584.347 |             |
| C1G635N02      | 3263212.9   | 26972233.34 | 27423048.7  | 29257691.45 | 34313285.88 | 22457214.04 | 15653046.6   | 2711241.137 | 25886702.95 | 21855432.78 | 27631080.44 | 18388710.07 | 20207844.91  | 19427474.99 | 24267421.47  | 17242150.16 | 12547569.46 | 19191612.38  | 25190568.99 | 37615738.86 | 2653014.79  | 31485288.15 | 18692864.01 | 15674994.59 | 21628883.03 | 13079876.73 | 22577496.31 |             |
| C1G635N03      | 564549.3259 | 366919.7956 | 296974.051  | 425943.5035 | 541409.6397 | 290108.8883 | 231826.7846  | 394940.8267 | 291501.323  | 391383.3542 | 156637.8641 | 203224.8156 | 188514.2227  | 159304.9485 | 376973.7083  | 237937.4877 | 174304.9891 | 1776505.168  | 394778.2455 | 749787.8649 | 624128.0149 | 397457.5104 | 337520.2125 | 194217.2576 | 221762.137  | 933387.9438 | 458485.0497 |             |
| C1G635N2012P   | 48403.7693  | 67256.86737 | 91007.70735 | 131263.5032 | 72324.8855  | 62723.52007 | 44141.50625  | 43788.3447  | 33075.21576 | 64209.91564 | 100740.6167 | 54390.16232 | 98552.08989  | 79111.07631 | 50163.92414  | 59283.27096 | 37216.42325 | 349691.301   | 120400.4785 | 86395.92551 | 60572.90075 | 11527.18343 | 16131.53871 | 36431.85846 | 96384.87863 | 60664.61384 | 72576.66245 |             |
| C1G635N408P3   | 563877.6548 | 367567.823  | 91214.60014 | 217896.6083 | 122960.4938 | 60819.46386 | 167392.6174  | 289116.4306 | 146768.4413 | 171253.8377 | 62226.22002 | 171018.2348 | 244192.3531  | 346328.5736 | 200772.6754  | 194976.673  | 1938085.524 | 162430.1402  | 424688.0107 | 296611.8031 | 181060.3736 | 369990.8924 | 563304.8148 | 248580.9724 | 195549.1671 | 841465.8091 | 168918.9948 |             |
| C1G635N805P    | 2711317.769 | 1387509.886 | 802790.516  | 157161.768  | 1909172.119 | 6505802.165 | 1531148.107  | 2609252.556 | 2840529.872 | 1355904.814 | 2161127.694 | 1483383.932 | 1461827.616  | 1218379.737 | 768005.5658  | 893492.806  | 147123.2755 | 138989.116   | 724062.3952 | 2105819.274 | 1807061.249 | 123894.764  | 128022.165  | 1287004.188 | 1961206.26  | 1206741.173 | 1068004.348 |             |
| C1G637N404P52  | 2070480.932 | 2099793.302 | 2360524.34  | 2252349.303 | 2473119.884 | 2559573.208 | 2082636.962  | 2301969.619 | 1172771.42  | 1467415.465 | 686818.1478 | 1732885.914 | 1245510.655  | 1430748.193 | 2017449.422  | 286637.326  | 2310229.547 | 108706.117   | 1320823.01  | 1614597.484 | 501678.827  | 1298435.741 | 1455884.75  | 428878.479  | 1391987.111 | 1708395.757 | 1786910.125 |             |
| C1G64CN6015P3  | 7132866.509 | 6660550.309 | 6677998.445 | 6029548.597 | 3239132.263 | 2910510.655 | 5728631.95   | 3131128.063 | 572729.913  | 525072.558  | 568089.415  | 1552073.11  | 11598018.966 | 1248260.316 | 6457092.215  | 637567.363  | 609307.662  | 580013.816   | 4952978.037 | 6160244.675 | 3844279.657 | 311197.52   | 4625373.782 | 5572814.01  | 6259765.952 | 618338.09   |             |             |
| C1G641N806P    | 103024.274  | 35844.6308  | 36983.6663  | 29473.54349 | 100951.52   | 33468.74114 | 114046.7444  | 16282.78293 | 289663.397  | 15727.2699  | 1666.58849  | 16111.22661 | 205849.8476  | 17952.03929 | 52106.16418  | 15297.58044 | 23870.9486  | 19772.6041   | 219498.465  | 18310.51273 | 26382.16146 | 16718.674   | 12275.48099 | 248674.603  | 13728.3071  | 22670.82064 | 196421.992  |             |
| C1G642N10015P2 | 120046.1134 | 147608.307  | 146960.4828 | 190601.2132 | 117494.9005 | 85935.9055  | 191002.7257  | 25435.0933  | 319935.0666 | 147164.3497 | 222689.0917 | 46252.6107  | 35095.23611  | 86758.68763 | 131411.2517  | 82155.32495 | 71096.37732 | 137360.7339  | 102546.915  | 103269.4493 | 143922.9731 | 150360.9339 | 22547.6281  | 67990.0965  | 135822.067  | 32681.4602  | 32360.3648  |             |
| C1G642N602P2   | 147995.012  | 1027541.084 | 13027.71767 | 119944.857  | 1467923.64  | 1142203.851 | 693768.8987  | 861529.7199 | 818734.2801 | 534858.704  | 283535.1053 | 158139.114  | 713790.7172  | 1466457.429 | 1064453.068  | 195377.1533 | 169307.2617 | 771016.5218  | 714426.9123 | 325683.8814 | 1221601.02  | 858794.198  | 896438.1587 | 800776.8953 | 1041025.659 | 954935.2046 | 715948.2443 |             |
| C1G643N06P25   | 66354.4932  | 74468.8913  | 73584.92051 | 7720.35787  | 72489.42991 | 78965.3056  | 79006.94306  | 78552.89662 | 76268.76117 | 67338.38507 | 67668.76117 | 60572.29998 | 1294403.743  | 1605138.141 | 6472531.6102 | 674707.6171 | 66517.24526 | 32426.02934  | 70521.65135 | 129461.7856 | 169649.2549 | 187631.9679 | 67213.17193 | 752965.7942 | 569473.3992 |             |             |             |
| C1G644N03P3    | 1746622.266 | 1356888.508 | 9843484.394 | 135751.896  | 1217864.866 | 752662.61   | 6980821.072  | 1481621.804 | 1254719.637 | 561094.8327 | 827544.686  | 98180.996   | 1014907.77   | 128791.795  | 1009984.879  | 892665.887  | 1520242.176 | 942761.8407  | 796206.0604 | 950395.8289 | 1195836.668 | 115107.689  | 1579000.136 | 1250256.696 | 1150868.362 |             |             |             |
| C1G67N10P352   | 396104.5973 | 14040.26397 | 11106.7855  | 194248.8579 | 190077.4634 | 150545.4462 | 963851.0783  | 103903.9926 | 11347.5671  | 360194.2453 | 12107.6823  | 132716.0818 | 306434.2802  | 231719.3545 | 148749.3052  | 58243.92187 | 285567.4728 | 269145.0195  | 11444.4093  | 503576.0488 | 329679.3465 | 11474.5821  | 32666.39705 | 123867.5756 | 12124.04724 |             |             |             |
| C171H0N4035    | 251592.8203 | 49665.32075 | 30444.86879 | 26749.10587 | 67170.39036 | 26291.7284  | 27384.2701   | 91001.2064  | 95953.1829  | 18259.5154  | 68044.55215 | 20826.34796 | 963260.8214  | 750913.5368 | 922755.2753  | 50505.19972 | 132553.6617 | 64450.95556  | 34301.21549 | 20773.60991 | 43346.3462  | 34534.26144 | 50609.70166 | 66364.74608 | 36764.22549 | 17332.87074 | 620075.4487 | 647119.4259 |
| C171H1CN604P   | 122726.0426 | 49678.9605  | 112389.021  | 125009.802  | 123309.718  | 95157.5788  | 123309.718   | 118084.2314 | 10825.4563  | 100492.3665 | 111749.641  | 10478.1578  | 95967.9567   | 67966.78403 | 13343.8346   | 14386.18629 | 41480.9374  | 29168.89957  | 10363.47694 | 62704.9374  | 32074.70693 | 36648.51128 | 4848.21536  |             |             |             |             |             |
| C171H1N7035P   | 5475.52792  | 24100.11483 | 60541.73686 | 65314.65801 | 53768.34555 | 35200.41796 | 74098.81233  | 18107.5238  | 16027.21136 | 84355.2672  | 87271.3685  | 16032.98019 | 85565.03598  | 85806.01505 | 51773.52734  | 148493.7652 | 157176.9413 | 1104609.0053 | 96071.15663 | 54005.21237 | 115441.417  | 12548.8118  | 25315.1702  | 115597.3758 | 16258.31607 | 14327.70039 | 46476.74322 |             |
| C171H1CN4013S3 | 8234.01759  | 32461.696   | 47899.6114  | 59530.97448 | 65047.07083 | 33889.23755 | 48169.36752  | 45563.7274  | 43198.9636  | 50385.26586 | 35454.35125 | 59584.01694 | 9566.716138  | 106714.2683 | 19618.89344  | 19473.62891 | 84098.4922  | 58111.68442  | 60044.05498 | 73522.17719 | 67646.4351  | 9084.352579 | 11048.04659 | 65731.84857 | 8457.72853  | 47033.72999 | 39878.66489 |             |
| C171H18N204    | 558527.7708 | 40400.7241  | 12566.9596  | 23488.3387  | 165997.432  | 267893.1096 | 106317.4514  | 349243.7797 | 51254.7397  | 209740.469  | 83932.9358  | 126609.4146 | 159070.513   | 529047.105  | 44002.7465   | 884788.706  | 58492.168   | 63409.31703  | 265976.6188 | 1213362.02  | 94545.9031  | 428876.9563 | 245569.621  | 221171.8128 |             |             |             |             |
| C171H18N204    | 656451.194  | 3756600.574 | 340633.5727 | 481740.6564 | 272771.3939 | 344224.2164 | 107788.5064  | 120259.1109 | 334605.2915 | 216200.7617 | 194293.1275 | 132277.0827 | 143435.3446  | 116248.1085 | 797088.2827  | 591050.0408 | 332463.2618 | 602571.0137  | 155607.7895 | 272942.406  | 175995.0202 | 878490.7363 | 1591209.759 | 232473.9486 | 185835.45   | 147685.4488 | 108479.2985 |             |
| C171H18N204    | 283849.8561 | 187156.1638 | 106060.48   |             |             |             |              |             |             |             |             |             |              |             |              |             |             |              |             |             |             |             |             |             |             |             |             |             |

|                 |             |             |              |             |             |             |             |             |             |             |             |              |             |             |             |             |              |             |             |              |             |              |              |             |             |             |             |            |
|-----------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|
| C18H18N4O2      | 3766281.83  | 37346589.87 | 6312330.726  | 28191691.33 | 21026565.44 | 4098596.581 | 5159208.596 | 22359419.07 | 17550165.97 | 18412090.2  | 3632480.043 | 8536335.5    | 10004763.4  | 28406845.44 | 16243563.1  | 28093241.65 | 18283958.33  | 10431709.07 | 23883187.49 | 12809560.08  | 11940719.33 | 15916218.54  | 34302509.69  | 35761740.65 | 37386103.51 | 26725461.37 | 28348235.13 |            |
| C18H2D5O        | 246541.9935 | 159816.9667 | 100639.8054  | 95393.07492 | 132401.1947 | 472644.6327 | 152618.7637 | 223472.7372 | 54416.39627 | 63566.93604 | 73186.75616 | 130317.2716  | 30361.83665 | 249494.6076 | 300064.1889 | 129397.1957 | 57164.51603  | 134897.3264 | 66094.82089 | 52497.99877  | 116764.8602 | 231521.8335  | 54765.32001  | 70808.82552 | 61762.62815 | 80925.3888  | 1500153.63  |            |
| C18H22N2O5      | 304314.0993 | 172312.0344 | 79885.9507   | 126047.1255 | 50732.07214 | 141767.868  | 5939.41612  | 100897.751  | 177979.6937 | 60937.72809 | 78124.4819  | 30220.2698   | 43801.36066 | 97600.13178 | 675335.8182 | 214300.8187 | 115847.7217  | 132644.1928 | 32687.44883 | 48558.68018  | 54722.53559 | 137424.127   | 22319.7826   | 276242.3497 | 34643.82321 | 54643.76831 | 40034.1283  |            |
| C18H23O10PS     | 9319.20226  | 53586.0465  | 160079.6199  | 87334.33698 | 127631.386  | 90565.44655 | 91705.52021 | 92010.69515 | 149820.214  | 109373.0515 | 87514.56522 | 147213.1302  | 196388.818  | 144655.9349 | 186983.2377 | 150498.9928 | 144383.6115  | 138509.4367 | 168982.8671 | 138509.4367  | 299605.5967 | 613211.4053  | 58922.46039  | 82802.36319 | 177420.465  | 194233.3606 |             |            |
| C18H23PS        | 9212.954146 | 59373.18769 | 90470.6286   | 9117.022356 | 9279.5606   | 126074.2864 | 7831.857531 | 8206.72621  | 11029.312   | 97984.81825 | 77954.81825 | 129872.37858 | 30301.98462 | 308689.2752 | 107375.2982 | 46034.48025 | 230513.9333  | 16270.87892 | 16952.53372 | 36170.12633  | 411425.0481 | 60922.66167  | 123212.6987  | 40242.86501 | 193720.3481 | 26824.64628 |             |            |
| C18H24CIN3O2P   | 184501.6581 | 122590.3174 | 202392.0527  | 28730.275   | 208153.4667 | 208741.0551 | 159573.7572 | 243291.3084 | 238158.2602 | 235027.6936 | 202181.9146 | 308547.826   | 348211.8889 | 400730.0754 | 197452.5736 | 595114.9626 | 406285.471   | 123766.6191 | 282147.1932 | 344512.6324  | 223513.8714 | 146620.703   | 109237.8845  | 239808.5752 | 209232.7494 | 208172.6993 | 240216.3423 |            |
| C18H24N2O6      | 536799.3684 | 432180.7777 | 191508.2565  | 135052.5031 | 59651.94656 | 217840.3145 | 225523.1316 | 65145.18957 | 346932.283  | 77668.00571 | 124306.0296 | 42331.01252  | 76267.74397 | 149655.3159 | 864793.2386 | 1111545.235 | 120328.9519  | 509623.6796 | 482921.6298 | 320849.2039  | 71822.95603 | 1521490.886  | 5303649.359  | 260481.7778 | 75922.44727 | 50058.0459  | 37896.65365 |            |
| C18H24O6        | 1372380.147 | 788568.4912 | 1225626.76   | 362814.3173 | 1127828.714 | 1463179.562 | 1364025.225 | 1774134.052 | 1565509.666 | 1089701.257 | 1397143.471 | 1512048.609  | 834873.1398 | 815426.8292 | 1564165.711 | 865710.7966 | 127269.257   | 1113809.667 | 880206.9833 | 832822.7031  | 1181087.163 | 1304177.106  | 1109761.827  | 1270862.196 | 1399112.223 | 976727.7587 | 1469769.735 |            |
| C18H25N11O4P4   | 1493658.02  | 851817.7398 | 643474.8224  | 5513703.269 | 815291.025  | 611212.8916 | 815196.3648 | 909116.5105 | 671604.9664 | 635569.8453 | 690807.8009 | 337661.759   | 1171520.276 | 599239.2848 | 488841.5551 | 549962.4498 | 737975.1186  | 693480.2938 | 48254.1859  | 430571.2287  | 699503.3394 | 771210.227   | 964608.5093  | 392494.2255 | 738005.4661 | 701777.2376 | 507219.1138 |            |
| C18H26N4        | 1157428.102 | 1063759.375 | 1365057.867  | 1042459.683 | 1898012.584 | 778168.1244 | 740476.6364 | 852369.5204 | 1066758.666 | 1009835.79  | 608495.7153 | 207122.0487  | 566844.8368 | 1285634.055 | 1623392.057 | 1580424.398 | 1139826.949  | 967013.8549 | 136360.6414 | 674929.9147  | 784017.8591 | 429112.8147  | 435763.7986  | 1066493.768 | 462789.8457 | 994008.581  | 1419285.658 |            |
| C18H27P3        | 389356.2811 | 95041.59754 | 216103.0789  | 134745.246  | 107494.4863 | 165430.1935 | 74124.15589 | 223483.1442 | 81061.04795 | 60856.65648 | 15087.71169 | 1169658.342  | 343468.9925 | 906799.501  | 21332.44601 | 38023.08214 | 49754.87481  | 30644.5512  | 96774.55661 | 125600.5876  | 243286.6023 | 54659.19092  | 153230.2202  | 76664.98555 | 859417.2026 | 181290.0682 | 232031.6985 |            |
| C18H3O06        | 2574147.916 | 2021258.157 | 1599104.111  | 8763987.605 | 1473124.644 | 1197105.594 | 1652339.368 | 1459734.367 | 1288845.192 | 1422593.234 | 1316816.584 | 1079716.557  | 2055334.278 | 1080487.911 | 944302.1433 | 1150248.124 | 1221517.918  | 1364063.662 | 1394731.629 | 1346028.949  | 1165154.922 | 1463400.571  | 1706224.5    | 1104313.568 | 1272696.595 | 514973.211  | 767577.6707 |            |
| C18H32O2        | 13052135.34 | 997287.211  | 5259374.388  | 5472534.848 | 6165241.085 | 4670401.235 | 7850549.977 | 1268894.101 | 13228227.85 | 8010890.823 | 3582078.418 | 5607930.003  | 7068627.205 | 6118370.096 | 14692053.72 | 11403692.27 | 9399083.592  | 12628768.14 | 4614479.496 | 8393936.796  | 5672276.602 | 9859355.599  | 12140260.089 | 18017450.15 | 14383319.75 | 7868043.988 | 818765.169  |            |
| C18H32O2S2      | 1514372.266 | 1752099.985 | 445059.5144  | 1930994.411 | 3089597.471 | 878770.0932 | 423235.5456 | 3019731.717 | 1676501.025 | 1343669.174 | 1484004.568 | 136619.334   | 1030711.039 | 1059412.332 | 821787.2334 | 1491611.519 | 1815672.335  | 1108731.914 | 350462.7082 | 1053460.596  | 1255962.44  | 993623.7267  | 1159217.919  | 326588.4699 | 184003.2901 | 613602.2283 | 602369.5099 |            |
| C18H32O4        | 382195.32   | 3246975.149 | 3119757.26   | 4376540.814 | 3884892.424 | 2720745.139 | 2887275.338 | 1937991.53  | 2562578.892 | 284295.911  | 2059808.161 | 2780947.566  | 2503255.156 | 2504281.39  | 5745458.086 | 8797419.141 | 737114.101   | 4075924.56  | 2405699.229 | 2108117.185  | 1961581.005 | 2452738.159  | 4175597.217  | 540651.566  | 3199488.316 | 775614.883  | 765541.883  |            |
| C18H34CIN3O3    | 11799832.05 | 154245.4944 | 49129.8525   | 785060.8956 | 5734191.578 | 911394.0092 | 47443.94374 | 14594107.29 | 18134187.79 | 70444.11628 | 14954.10729 | 91679.16431  | 691857.079  | 13953230.91 | 467704.657  | 4151680.004 | 51651181.82  | 7127470.977 | 13440343.96 | 9585832.8715 | 1872918.035 | 38581.12.197 | 14533514.74  | 1160186.46  | 17287271.73 | 112566.372  | 136476.773  |            |
| C18H34CIN3O3P   | 5422.78654  | 10998.13558 | 10916.98182  | 10669.46863 | 422731.0629 | 10898.95874 | 11798.02387 | 683279.6019 | 146728.117  | 98522.02199 | 8798.61483  | 119766.3304  | 64784.54899 | 143291.8701 | 198709.6164 | 184441.6801 | 852287.9188  | 312681.9305 | 1487949.226 | 970416.5676  | 223485.402  | 192382.6687  | 784182.1769  | 881426.5949 | 806764.1305 | 10875.86246 | 80876.2539  |            |
| C18H34O2        | 12968007.06 | 9861258.055 | 4902044.203  | 611409.292  | 893090.436  | 591183.64   | 761580.746  | 11711.998.8 | 11711.998.8 | 5722146.176 | 470954.776  | 7875454.389  | 8743496.289 | 851598.401  | 131852.6159 | 11821036.79 | 11327899.06  | 1056684.64  | 399822.057  | 9240656.562  | 7814824.361 | 11687925.56  | 11915572.38  | 14529896.32 | 3704303.25  | 887362.005  | 8261750.9   |            |
| C18H34O4        | 1458311.351 | 1769917.613 | 1061303.07   | 821054.1071 | 2431361.937 | 3829708.281 | 2475223.23  | 2272310.802 | 4243251.023 | 847474.1756 | 835981.7696 | 783747.7413  | 310450.8306 | 294381.4632 | 569230.5593 | 1072521.506 | 5813597.9753 | 578482.3924 | 50310.05064 | 249759.8797  | 363582.3803 | 691739.9611  | 970137.3294  | 414928.1035 | 874687.461  | 452120.6131 | 577730.7727 |            |
| C18H35N3O3      | 51792.34509 | 52748.93481 | 3054867.494  | 68245.43929 | 55491.49058 | 1970487.726 | 284056.662  | 61534.24034 | 34648.53239 | 47037.68143 | 1606956.376 | 45746.82123  | 39825.52166 | 45066.51969 | 39499.56405 | 34641.7898  | 9187.07954   | 42555.46642 | 35171.7104  | 32931.445    | 46403.16278 | 41130.92017  | 30722.42098  | 51210.40835 | 43040.4619  | 48911.54056 | 50757.5073  |            |
| C18H37CIN3O3PS2 | 171949.904  | 60531.0106  | 1847333.9875 | 153784.971  | 153631.1602 | 166993.307  | 190260.1932 | 135269.7629 | 11327.1447  | 94749.88669 | 86732.65627 | 129360.9913  | 117224.1964 | 141987.3407 | 118632.4586 | 336704.702  | 309727.2357  | 79683.5049  | 222881.5007 | 240922.0318  | 203349.3591 | 427350.567   | 283514.9354  | 266698.6113 | 116607.8024 | 61384.92188 | 75616.91108 |            |
| C18H39N3O3      | 1025216.45  | 10102661.47 | 10761159.78  | 16634443.9  | 14674541.26 | 15429974.58 | 1184980.21  | 1184980.21  | 1165423.68  | 1165423.68  | 12175027.17 | 7052013.653  | 81271.90629 | 935569.489  | 12628781.62 | 1322676.45  | 1053592.66   | 998083.8047 | 190247.1645 | 691767.67    | 1245628.747 | 12529829.8   | 398494.569   | 289149.34   | 1378267.78  | 1381267.78  | 1381267.78  |            |
| C18H39N3O3      | 22014.917   | 524223.792  | 269986.5384  | 15656.8084  | 185515.6155 | 158308.704  | 241989.4829 | 469721.0503 | 307930.9468 | 446803.9483 | 265812.3246 | 443691.104   | 138049.247  | 181954.7941 | 377949.5359 | 367092.1178 | 367298.8114  | 89776.43938 | 1388242.219 | 207929.1841  | 701753.7441 | 304503.0238  | 301082.987   | 125759.3899 | 726183.659  | 316522.6044 | 167234.8386 |            |
| C18H39N4O4      | 60152.4575  | 922527.8528 | 53301.971    | 305549.361  | 523095.6509 | 971173.0214 | 56256.4247  | 746884.8436 | 493230.164  | 46756.4247  | 22656.7051  | 64359.6582   | 87995.2276  | 811050.837  | 550904.5486 | 43234.2409  | 550904.5486  | 43234.2409  | 550904.5486 | 43234.2409   | 550904.5486 | 43234.2409   | 550904.5486  | 43234.2409  | 550904.5486 | 43234.2409  | 550904.5486 | 43234.2409 |
| C18H39N2O5P2    | 64017.03713 | 68064.10549 | 15299674.18  | 61731.17711 | 55327.17597 | 13290071.6  | 1745474.414 | 47673.78384 | 63926.82172 | 38933.66916 | 152521.0957 | 54214.88651  | 60563.40372 | 48784.11663 | 62496.66899 | 46734.17386 | 51662.93588  | 49283.40749 | 40284.16554 | 40858.97538  | 49060.00265 | 46207.1804   | 43864.2112   | 42616.31586 | 46500.86633 | 39910.68383 | 42950.81899 |            |
| C18H45N8O6PS    | 1292923.329 | 753411.7296 | 766474.5098  | 151582.149  | 1214127.796 | 485634.0914 | 1034194.466 | 944959.2617 | 374643.8936 | 866425.7488 | 21331.86275 | 107338.2901  | 132715.5447 | 217091.6593 | 900401.4678 | 966320.5188 | 251480.6911  | 785287.0411 | 1035999.702 | 508140.192   | 723818.2752 | 263130.4912  | 251480.445   | 24625.2324  | 804071.2759 | 461969.7957 | 183590.847  |            |
| C18H46N6O6P2    | 172583.388  | 688529.7191 | 30025.2831   | 1366076.079 | 771220.6319 | 643879.2429 | 1036387.156 | 1112918.838 | 32448.713   | 723632.3153 | 93191.4015  | 699460.9519  | 643777.9781 | 40257.7956  | 430305.7686 | 735276.103  | 62253.4603   | 870600.1258 | 985852.8715 | 154839.8929  | 140626.8119 | 236617.2805  | 20408.5697   | 794759.9386 | 949158.7163 | 8477.91241  |             |            |
| C18H50N1O4P2    | 753923.3201 | 81087.99738 | 40247.2313   | 358151.45   | 35038.677   | 373454.457  | 368680.1042 | 54545.9999  | 69163.1448  | 583391.3605 | 242633.1039 | 202443.7943  | 338860.6181 | 550469.669  | 32183.7346  | 34692.8752  | 131098.3112  | 539931.2347 | 724635.4397 | 25460.3188   | 309071.1864 | 881809.5391  | 1033782.387  | 734147.2322 | 562400.3926 | 40          |             |            |

|                    |             |             |             |             |             |             |              |             |             |             |             |             |             |              |             |             |             |             |             |              |             |             |             |             |             |              |             |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|
| C2H2C3N2O2P3S4     | 334163.9607 | 398547.8347 | 310857.3038 | 367209.3352 | 380067.9077 | 302169.642  | 267647.0597  | 366293.6173 | 264846.9519 | 362057.5861 | 329967.5888 | 268087.2701 | 217307.0137 | 246397.5142  | 507373.9659 | 385915.7632 | 297416.6576 | 497051.7816 | 384538.869  | 294328.8922  | 276601.4902 | 280376.3249 | 326117.2265 | 395672.8591 | 352816.1616 | 445644.6532  | 409164.7917 |
| C2H4C3N2O4P5       | 1240406.577 | 1307686.49  | 1297399.361 | 1314217.32  | 1178196.701 | 1344947.247 | 1280762.021  | 1542951.41  | 1338166.225 | 1487534.37  | 1511446.468 | 1936752.734 | 2237791.065 | 2094087.751  | 1712088.403 | 1598929.312 | 1496034.654 | 1840487.55  | 1500127.89  | 1578158.811  | 1416566.23  | 2041176.707 | 2106986.964 | 1456480.449 | 1655098.509 | 1549148.837  | 1327873.293 |
| C2H2C3N3O3P2       | 372512.926  | 470215.5867 | 384056.9896 | 387307.0947 | 399098.8309 | 423118.5822 | 398871.5783  | 442155.3659 | 380026.4198 | 426242.0175 | 197407.1185 | 413713.7026 | 408889.3463 | 409677.3461  | 35702.6396  | 383660.7366 | 369949.8861 | 409534.3242 | 437492.6793 | 461711.1567  | 419599.8536 | 410530.0061 | 362066.5669 | 380694.4394 | 441285.7301 | 468885.7146  | 486288.3163 |
| C2H2C4H2O4         | 290397.940  | 287652.5031 | 355449.9043 | 272841.0733 | 294883.3903 | 256973.5044 | 185855.1998  | 342659.3713 | 233600.5259 | 384434.7684 | 342484.6666 | 162857.1085 | 167002.3159 | 143405.6675  | 389892.9974 | 262073.465  | 167529.9061 | 312167.447  | 228203.6363 | 258473.6497  | 176106.3607 | 289169.2385 | 241685      | 292922.4992 | 367396.5839 | 246766.8592  |             |
| C2H2N10O9          | 162287.9025 | 441311.2216 | 455499.3366 | 142957.6533 | 131414.3323 | 397210.7994 | 434584.2832  | 345675.7113 | 203600.5259 | 370813.654  | 427868.1    | 26276.0878  | 243499.3003 | 173403.6372  | 448682.8128 | 364030.8175 | 179091.9123 | 431255.8383 | 758401.601  | 328602.1765  | 398979.3928 | 458485.6654 | 376502.1245 | 704717.5171 | 307280.3739 | 470696.4441  |             |
| C2H3BC12N2O        | 198537.37   | 203551.5479 | 1907524.656 | 1932074.115 | 1900747.378 | 1641833.109 | 1552137.162  | 226968.9582 | 1571756.375 | 1790110.168 | 1952926.113 | 2065456.747 | 2484962.201 | 243639.525   | 3321807.536 | 1954533.629 | 1660326.037 | 233065.0342 | 2068926.424 | 228407.8927  | 1952795.825 | 2121916.192 | 2289678.379 | 2078768.635 | 1878782.897 | 2089820.385  | 1954032.315 |
| C2H3BA3C12N4O9P2S3 | 1493656.317 | 1536116.547 | 1502610.193 | 1431448.206 | 1339796.361 | 1364273.189 | 1556240.712  | 1457476.078 | 1508206.128 | 1507748.958 | 1342492.674 | 2167941.963 | 1884872.362 | 14595937.892 | 1590654.926 | 160920.247  | 1655406.002 | 1516244.048 | 1522150.266 | 1563039.293  | 1602560.562 | 1796520.687 | 1484649.543 | 1651904.631 | 1671770.124 | 1695994.132  |             |
| C2H3BA3C14N6S4     | 982180.4577 | 1037944.931 | 862163.674  | 908349.4515 | 883212.2429 | 741576.5638 | 817516.5481  | 876172.5778 | 951144.7782 | 983050.5557 | 901820.7753 | 1335363.162 | 1250147.878 | 1159468.018  | 1142267.325 | 1028936.115 | 887569.3601 | 1046389.021 | 975531.6443 | 1118814.008  | 1025350.468 | 1020728.728 | 1170715.855 | 853046.7327 | 1127248.767 | 1049189.990  | 1013837.818 |
| C2H3C12N4O3P2S2    | 158159.0264 | 44720.6042  | 131613.3706 | 190109.6336 | 94413.4699  | 128126.2195 | 159387.0374  | 207078.5668 | 162802.4064 | 127220.3985 | 120408.8884 | 153917.6931 | 209674.1909 | 127025.0875  | 482680.505  | 160013.1784 | 142323.5233 | 180575.476  | 107920.3134 | 157595.6173  | 128242.6234 | 119732.2339 | 100380.6239 | 87172.71306 | 298389.7278 | 134863.056   | 192276.3872 |
| C2H3C12N9O3P5      | 10467248.55 | 7346191.325 | 11560964.68 | 11512773.46 | 11727816.13 | 15767427.53 | 20714771.94  | 16077122.56 | 13897607.02 | 9580318.847 | 13884475.29 | 6878474.828 | 6582464.112 | 9493797.96   | 5113086.272 | 4940005.261 | 10926047.87 | 1182662.608 | 6752448.436 | 6914675.152  | 13681062.13 | 71400400.41 | 6336783.258 | 13186463.53 | 3083471.001 | 6434045.029  | 8065190.465 |
| C2H3C1O5S2         | 105646.5454 | 164934.1753 | 123042.7371 | 170043.1869 | 135509.7252 | 131009.9236 | 85540.70238  | 142652.9975 | 881340.0389 | 123431.1013 | 128218.5967 | 65700.72806 | 108557.7165 | 135875.175   | 124010.2822 | 97041.76677 | 107587.4073 | 144690.9244 | 141917.61   | 124011.5347  | 125687.6541 | 157315.4148 | 187820.5062 | 103793.8194 | 117574.0255 | 152533.9487  | 134686.0075 |
| C2H3C13O4          | 1217868.077 | 747242.0452 | 1274166.091 | 788785.8109 | 997357.8403 | 636310.0031 | 719719.5784  | 755690.0471 | 1079377.01  | 122079.567  | 1261601.234 | 1300628.904 | 1507394.39  | 1208624.305  | 1172993.915 | 815356.8005 | 695272.1263 | 1086432.953 | 1504054.174 | 1404484.713  | 1132874.661 | 1213835.186 | 1415569.824 | 1390489.514 | 1082484.259 | 605091.7806  | 742725.9565 |
| C2H3C8N8O5P5       | 349635.3766 | 66672.5075  | 108807.6058 | 37513.8036  | 292327.7592 | 613311.2952 | 241581.5155  | 504583.632  | 138163.9068 | 196253.6421 | 76846.32796 | 117145.8142 | 438669.3356 | 166712.2281  | 84075.70112 | 65512.57528 | 30349.65476 | 696048.0542 | 96707.95859 | 35097.86839  | 126791.9669 | 442071.0965 | 548821.9476 | 97145.4272  | 156535.7118 | 1011100.866  | 168595.7663 |
| C2H3C8N1014P3S     | 9622285.141 | 10717253.47 | 9883555.056 | 9824987.957 | 9651139.022 | 9301723.847 | 10075777.51  | 9593265.435 | 9898111.151 | 10086436.41 | 10106485.4  | 8441533.34  | 8324168.272 | 9248147.949  | 7767925.41  | 9135719.702 | 1020256.04  | 921154.176  | 863668.961  | 9442607.773  | 9274305.398 | 8241734.801 | 8168913.784 | 8622460.425 | 9180490.831 | 9072072.29   | 9569356.568 |
| C2H3C9N1015S       | 1230366.31  | 1020445.013 | 1111998.559 | 1345490.77  | 1422966.106 | 1909719.424 | 1459837.943  | 1190505.904 | 1257711.746 | 1701663.07  | 108567.208  | 1929172.241 | 539600.9903 | 1570828.502  | 628271.7303 | 679012.886  | 1569099.459 | 174440.317  | 1341423.201 | 1604809.375  | 500064.334  | 610213.2372 | 1559005.462 | 116299.7639 | 1432161.522 | 1411868.761  |             |
| C2H4C3N3O10P2      | 75947.8734  | 10815.34312 | 102379.4404 | 62595.30266 | 90880.73095 | 108806.3459 | 116285.3554  | 52933.16735 | 12355.92317 | 120219.0171 | 42024.49348 | 92431.83358 | 113167.2175 | 103039.9204  | 39364.72424 | 27376.22681 | 39547.64347 | 47800.62165 | 58667.63468 | 43483.83822  | 68530.70248 | 32288.88191 | 61205.17618 | 81370.43304 | 106030.5932 | 102740.29975 | 10356.16611 |
| C2H4C3N1017P2S2    | 381771.2721 | 795557.0936 | 30843.05579 | 123660.5218 | 97409.3175  | 100805.2366 | 85392.0471   | 127054.7343 | 92738.66126 | 107430.4923 | 133573.5308 | 95871.93634 | 66138.09043 | 146451.2065  | 58597.99547 | 224890.8775 | 134545.6032 | 6191.21924  | 102161.2946 | 78652.65597  | 94710.10897 | 107373.6959 | 91927.40837 | 115152.8701 | 11270.2351  | 128824.3329  | 145132.0518 |
| C2H4C3N1017P2S     | 1370919.673 | 4182278.479 | 326470.561  | 356320.825  | 3740806.261 | 386940.3891 | 335513.285   | 3931315.18  | 351401.746  | 3694570.258 | 339443.894  | 3588649.15  | 3803213.546 | 3832493.462  | 4291869.888 | 3993554.482 | 3765817.334 | 4101914.645 | 3648843.71  | 388560.562   | 3585860.61  | 37425.9633  | 356230.724  | 3315318.943 | 3823128.627 | 3720483.745  |             |
| C2H4C12N2P         | 318364.5339 | 455017.2162 | 25855.4012  | 321507.734  | 159635.5365 | 275704.8386 | 336290.917   | 318807.5701 | 285611.6135 | 293419.6976 | 246652.2914 | 245599.1026 | 167734.5764 | 281653.2783  | 262385.952  | 463522.2570 | 454333.4723 | 535868.2544 | 795486.1771 | 238476.9761  | 297175.3728 | 465148.911  | 709843.8675 | 42534.5491  | 1368528.014 | 55316.4989   | 368809.9045 |
| C2H4C13O5P         | 39621.17698 | 49302.65665 | 126254.1915 | 39508.92065 | 53640.51294 | 37481.9123  | 38608.30139  | 39394.7077  | 49029.95606 | 55625.52956 | 38974.87146 | 31959.52504 | 40459.34546 | 285342.1937  | 49170.8626  | 30653.03582 | 31768.6854  | 4156.22475  | 136056.0346 | 65058.2638   | 47116.67665 | 75019.51458 | 79499.22407 | 32805.92784 | 1120.3598   | 138420.3926  |             |
| C2H4C17N9O3S5      | 16426.4118  | 207468.3186 | 134661.7363 | 111818.4963 | 14118.2324  | 117936.9784 | 229022.22945 | 155503.0444 | 184207.6138 | 100533.2414 | 120085.6586 | 241447.0803 | 268908.1558 | 201688.5779  | 242519.5452 | 245839.8968 | 19399.5513  | 211198.8493 | 326074.4322 | 191655.4577  | 160173.0624 | 323533.784  | 46731.11729 | 220695.4561 | 174741.6783 | 249034.3971  | 264283.1825 |
| C2H5BA3C12N4       | 126440.8703 | 53348.6089  | 90874.20412 | 123645.3206 | 121840.5387 | 66226.94937 | 108905.404   | 121762.0702 | 71267.88152 | 13761.68814 | 29636.5658  | 12936.5658  | 129632.2958 | 176047.698   | 81718.47726 | 203120.7548 | 191049.7025 | 62252.5193  | 96803.18431 | 95581.8344   | 72758.26718 | 47035.31152 | 70751.6915  | 95963.49389 | 74457.81484 | 87799.71094  |             |
| C2H5C12N1013P2S2   | 2049055.887 | 1786018.603 | 178758.554  | 1513999.086 | 1852230.178 | 1968627.391 | 1617030.146  | 1959984.881 | 1561252.179 | 1582614.79  | 1454444.176 | 1620923.001 | 1968612.264 | 1803451.84   | 2206845.705 | 188875.541  | 1877712.914 | 1850602.126 | 1632951.53  | 1937462.031  | 711388.489  | 2433684.708 | 2200823.764 | 1898671.33  | 1692913.23  | 159788.033   | 1578868.58  |
| C2H5C13O5P         | 290355.4946 | 417973.7329 | 399188.3262 | 35176.7025  | 375682.2149 | 410268.0645 | 3390178.9762 | 531703.5599 | 40144.6152  | 49778.7671  | 491458.2291 | 409720.4825 | 392280.3104 | 180345.6582  | 44794.515   | 488203.8383 | 402597.9991 | 464204.5393 | 400190.9597 | 414666.8387  | 42257.7918  | 45349.7653  | 140793.843  | 8414.7002   | 51899.258   | 510906.0543  | 463142.3783 |
| C2H5C8N1017        | 444114.5678 | 160294.845  | 93325.04166 | 346334.7443 | 240693.6309 | 58835.73768 | 155124.8084  | 342327.215  | 208524.076  | 96857.03949 | 2177034.853 | 119544.7588 | 279931.9265 | 197899.1902  | 178357.1406 | 216446.4325 | 112622.0194 | 248400.7317 | 236374.7308 | 315478.0374  | 83825.34048 | 222305.3646 | 229247.1745 | 106741.1036 | 340812.3549 | 193649.4977  | 412238.0627 |
| C2H6C12N10O3P5     | 2849971.94  | 224924.47   | 226709.048  | 2987463.34  | 2989839.55  | 2667502.859 | 255873.561   | 3576598.96  | 2844087.21  | 2466339.953 | 29341.4486  | 191140.21   | 241895.742  | 1990450.214  | 3168896.021 | 29014.9492  | 1925706.823 | 3723454.587 | 1755321.029 | 2929439.29   | 2798303.113 | 2909131.635 | 265638.591  | 1708532.801 | 3764295.845 | 327473.4712  | 1856102     |
| C2H6C13O3P5        | 172997.0186 | 205915.316  | 111080.0598 | 107531.4327 | 235390.522  | 259612.3744 | 68044.42714  | 551873.4042 | 579965.7621 | 1121129.703 | 174856.389  | 230889.1169 | 1268559.675 | 141346.0702  | 71294.60173 | 1057123.729 | 123911.4845 | 719358.9611 | 527495.7554 | 484822.93005 | 262307.4721 | 346992.1508 | 94140.3273  | 108187.4005 | 131827.4005 | 156420.4555  |             |
| C2H6C12N6O6P       | 380585.3795 | 435948.2455 | 399943.7249 | 294367.9377 | 340433.1985 | 166862.4903 | 317258.2505  | 317404.1752 | 307607.4248 | 403950.3599 | 342181.5035 | 95700.0064  | 114865.4372 | 71552.94294  | 400360.3922 | 7159.30476  | 135719.6673 | 202263.9503 | 132621.8736 | 472992.9534  | 361095.5136 | 227449.0085 | 306548.0618 | 184114.0985 | 290629.9821 | 14273        |             |

|                  |             |             |             |             |             |              |             |             |             |             |             |             |              |             |             |             |             |              |             |             |             |             |             |             |             |             |             |             |
|------------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| C21H38O6         | 18496.52346 | 38555.69489 | 14148.44305 | 40444.46692 | 44248.10129 | 59666.55579  | 75560.81668 | 21049.53939 | 17485.11241 | 30785.93301 | 29146.90929 | 15076.15789 | 17011.12101  | 20273.05435 | 33101.3646  | 550166.5629 | 203439.7236 | 37636.343    | 22520.14982 | 33692.86603 | 16004.66123 | 15944.97762 | 14995.12719 | 73130.72924 | 29033.08401 | 19840.8724  | 64637.51204 |             |
| C21H39NP2        | 728797.8204 | 31699.4094  | 90683.41019 | 410308.8196 | 242894.211  | 413150.51094 | 63223.64206 | 158590.653  | 565945.7692 | 29996.93934 | 27337.7318  | 26007.98184 | 515926.7718  | 304485.9877 | 100261.698  | 26902.255   | 412399.4534 | 552035.2363  | 917198.8513 | 34582.26519 | 29710.66928 | 26790.81536 | 23994.28871 | 492936.6973 | 20622.44273 | 29889.08307 | 448076.0572 |             |
| C21H39NS         | 3590601.708 | 3021959.42  | 3523970.17  | 2547637.386 | 4170039.062 | 3520214.973  | 270130.607  | 3609765.481 | 2280720.058 | 312755.495  | 328082.574  | 1600582.951 | 1868413.925  | 227399.72   | 3271078.177 | 4713919.407 | 2233658.574 | 3282598.052  | 3518373.217 | 472082.9907 | 3070597.602 | 3895834.74  | 2681192.599 | 240087.317  | 294660.907  | 5617372.57  | 260648.97   |             |
| C21H40N2O14      | 198921.4997 | 249755.76   | 266099.7126 | 257411.5027 | 253135.6438 | 260420.299   | 264020.299  | 473185.974  | 72966.1409  | 39885.90892 | 47110.73724 | 179423.2951 | 119189.984   | 87555.04008 | 67384.4     | 1003237.315 | 155664.6471 | 114432.4852  | 422088.9906 | 33957.94594 | 148451.958  | 967978.0278 | 118379.8604 | 190850.618  | 24089.0473  | 63676.78187 | 136731.7034 |             |
| C21H40O8         | 17130.68589 | 121326.4447 | 70603.85203 | 41957.15316 | 88570.82959 | 294388.433   | 319495.0191 | 236098.6156 | 30898.50247 | 78198.0047  | 19422.44278 | 17953.12746 | 232379.68929 | 30592.56698 | 42886.73102 | 392436.9602 | 85193.2025  | 25212.8146   | 25472.80854 | 15909.13834 | 38717.82474 | 11011.64372 | 69176.90056 | 50354.87322 | 36844.34387 | 35534.72287 | 160487.6823 |             |
| C21H41NSO4       | 55554.13671 | 43053.5881  | 3597280.053 | 42835.07951 | 50084.32414 | 3228765      | 3770939.584 | 41515.006   | 47728.56359 | 34755.66408 | 2999490.085 | 63135.23398 | 50327.45918  | 49360.2217  | 58852.59931 | 46651.74443 | 52198.8708  | 57724.07397  | 43072.29252 | 40503.62946 | 53475.34926 | 43246.54904 | 45384.76689 | 47166.361   | 39097.0268  | 42041.97926 | 38108.76333 |             |
| C21H42N1O04S     | 622373.9293 | 532092.4006 | 613269.9799 | 5271345.586 | 611329.9007 | 727601.5912  | 488244.214  | 253270.5151 | 405275.4427 | 96692.32343 | 458176.3483 | 365978.1277 | 203679.7905  | 35117.5733  | 281547.6171 | 304122.8786 | 292002.8626 | 471967.5689  | 387418.5727 | 495918.2156 | 328195.7575 | 657174.9404 | 225694.267  | 490436.160  | 914320.6322 | 263710.1434 |             |             |
| C21H42N6O2S2     | 50994.35845 | 60110.80022 | 1776367.188 | 51109.28339 | 48715.64959 | 1992276.599  | 3059535.886 | 42330.58302 | 46434.52736 | 43184.74858 | 2776589.559 | 42104.59526 | 45591.80214  | 46674.5008  | 39049.77441 | 58548.61057 | 62665.52074 | 39964.64764  | 52894.70707 | 54576.74912 | 49105.53921 | 39441.46646 | 44156.75247 | 41915.57076 | 39620.87666 | 43277.9805  | 40949.11541 |             |
| C21H44C1N10O4P   | 501763.4823 | 144512.7624 | 85318.22603 | 59173.74151 | 65775.27467 | 77473.37962  | 116992.7751 | 109677.5059 | 71917.92796 | 65078.55262 | 232005.0138 | 24579.63857 | 22383.61647  | 21358.84229 | 18871.31873 | 22137.3606  | 23239.38473 | 43742.57213  | 67140.90119 | 277990.6209 | 370320.5632 | 55564.53011 | 52392.53115 | 48611.28284 | 232989.0685 | 735049.2082 | 150453.52   |             |
| C21H44NP3        | 1546551.902 | 565851.0037 | 1131459.223 | 900024.4653 | 1894668.799 | 974138.5953  | 1929205.579 | 1833440.361 | 300834.5598 | 1658861.403 | 783168.933  | 734079.31   | 438172.0169  | 372319.31   | 764638.802  | 117134.191  | 1629349.28  | 651537.9384  | 2409081.048 | 495553.0136 | 273489.2265 | 328194.1744 | 1499105.562 | 387747.6437 | 1491009.876 | 1106920.797 | 655182.4874 |             |
| C21H45N2O6P      | 72540.67817 | 87803.75779 | 15291381.98 | 74798.80779 | 70150.93392 | 12176992.32  | 17756952    | 64883.48687 | 66491.94748 | 57789.43866 | 14739319.8  | 55633.66197 | 59595.42009  | 63130.77202 | 55104.2106  | 72796.0162  | 78588.90873 | 51475.19636  | 66580.65573 | 68423.26368 | 63809.94937 | 51895.85036 | 56861.86988 | 53220.53108 | 54113.28163 | 57164.52195 | 59721.82413 |             |
| C21H45N4P3S2     | 14049.55187 | 14431.79607 | 13406.2409  | 14680.11012 | 30695.0051  | 18152.86505  | 11801.82606 | 16016.01247 | 19284.69068 | 19056.88448 | 15687.03864 | 10790.30751 | 11983.29287  | 9614.898247 | 86293.00693 | 45531.16617 | 27434.59019 | 87549.94206  | 10273.76155 | 20903.01895 | 11749.03745 | 241370.3604 | 323023.1497 | 42207.573   | 44892.67837 | 30531.11133 | 33344.84669 |             |
| C21H49N4O9P      | 93475.67156 | 80033.25476 | 61410.53739 | 77072.39125 | 107090.709  | 99061.42341  | 60839.65178 | 83167.6999  | 78266.92634 | 89996.25165 | 14643.68234 | 26540.15114 | 19925.85911  | 32370.00703 | 74283.53385 | 47842.26135 | 76946.74808 | 17359.94462  | 98617.64212 | 273949.1701 | 20908.61136 | 18480.83414 | 29347.34317 | 21602.22792 | 15802.07121 | 30791.20868 | 38913.54554 |             |
| C21H50N7O23P3    | 326594.9134 | 90567.87072 | 95320.83163 | 131823.4734 | 396815.9381 | 500126.1972  | 268010.2283 | 1979169.741 | 744539.1703 | 672539.2291 | 596984.2114 | 835880.471  | 972336.1643  | 76357.18629 | 119520.0703 | 400864.7876 | 365992.4376 | 114192.124   | 315785.4508 | 1430451.878 | 1400951.041 | 177677.9309 | 264227.1273 | 130920.6131 | 78879.01054 | 134610.2537 | 134105.1182 |             |
| C21H50N9O2P5S2   | 29425.08359 | 39600.3293  | 28856.95889 | 25662.21104 | 22224.98467 | 22219.32728  | 21184.80684 | 19037.06265 | 20584.53435 | 15553.07424 | 16177.75008 | 73386.65653 | 132948.8084  | 128578.9774 | 117970.0155 | 5201.186271 | 1314940.723 | 1941.19.7277 | 605219.8325 | 257492.7039 | 588445.6038 | 15342.74656 | 15877.5795  | 18279.99191 |             |             |             |             |
| C21H53N1O10O3P3S | 735654.0616 | 1364002.821 | 14648.4813  | 89446.49254 | 1366369.166 | 158101.7194  | 1176000.921 | 47015.94786 | 729264.2061 | 972919.8987 | 1059234.217 | 1313662.377 | 131659.9049  | 825423.3269 | 106000.771  | 1204076.093 | 278627.6539 | 172781.0637  | 744042.0555 | 177441.5354 | 954066.0217 | 596708.1317 | 808109.8894 | 103768.4573 | 252192.6232 | 958944.6439 | 872185.6617 |             |
| C21H54N9P5S2     | 27979.32065 | 80321.80685 | 5462569.681 | 30070.43531 | 84522.24385 | 832561.674   | 92841.86174 | 62744.8186  | 90568.05275 | 79456.57473 | 69377.82697 | 4770753.525 | 69358.51905  | 61437.18121 | 62141.42926 | 87630.90603 | 66355.09245 | 36858.40382  | 68505.40314 | 61680.43642 | 57777.90117 | 71557.17757 | 56956.55779 | 82603.99022 | 61863.74906 | 59605.19158 | 58381.94371 |             |
| C22H26N4         | 99775.2704  | 326183.8283 | 103238.1853 | 263844.1106 | 73801.23541 | 177740.2801  | 65997.35982 | 80686.05758 | 127534.54   | 41312.87472 | 50374.53401 | 585786.9899 | 760016.8384  | 10356.2088  | 352584.0189 | 68042.50784 | 56798.45997 | 40987.10022  | 56800.56412 | 49031.92601 | 44269.35258 | 41723.59147 | 47630.52209 | 50834.21662 | 95579.7998  | 50982.31259 |             |             |
| C22H28N1O04S     | 594830.211  | 803554.2688 | 540640.2119 | 109123.447  | 490651.9609 | 727964.8886  | 752050.2997 | 448923.482  | 1470994.464 | 413774.4638 | 26412.22501 | 1491072.441 | 1011271.898  | 1588667.761 | 1066668.756 | 752805.2053 | 664081.5344 | 4497938.303  | 489372.9818 | 1943134.636 | 727200.1408 | 282354.7253 | 635432.1073 | 1006331.345 | 1086089.865 | 225840.639  | 331868.247  |             |
| C22H32N4O2       | 218977.1056 | 263459.0688 | 229023.5316 | 94910.10451 | 232578.6337 | 216402.6853  | 475399.4372 | 146482.8616 | 235722.5341 | 189678.429  | 544872.2131 | 349060.2131 | 184770.0021  | 36786.1203  | 203971.408  | 60397.8685  | 285772.3808 | 67097.65995  | 17023.9624  | 146334.5033 | 148087.1911 | 87109.21363 | 180321.6373 | 126060.2378 | 132687.5159 | 111016.7617 | 120260.3268 |             |
| C22H32O9         | 685017.5273 | 340196.8309 | 431637.0977 | 50275.42601 | 859764.8965 | 756665.5862  | 570072.8403 | 890273.9883 | 134162.635  | 416205.8814 | 529624.1487 | 170972.8819 | 3479008.863  | 656938.5555 | 1154742.877 | 911104.9329 | 678771.3062 | 348443.741   | 630914.5725 | 872948.1382 | 792504.3614 | 846782.7777 | 333720.6210 | 72635.4009  | 45066.6978  | 1120749.928 | 110359.473  |             |
| C22H34NP         | 90415.4806  | 100515.9238 | 2559589.51  | 89589.52105 | 87330.12713 | 8999178.589  | 95343.66198 | 87340.55164 | 80274.99501 | 86243.80349 | 83784.95189 | 97998.36725 | 107377.8719  | 36787.8719  | 38748.58589 | 97998.36725 | 107377.8719 | 38748.58589  | 97998.36725 | 107377.8719 | 38748.58589 | 97998.36725 | 107377.8719 | 38748.58589 | 97998.36725 | 107377.8719 | 38748.58589 | 97998.36725 |
| C22H34N6O2S2     | 149297.9946 | 163901.4376 | 118227.3059 | 169789.526  | 106326.1927 | 107496.4736  | 118306.0558 | 224736.6394 | 409661.5219 | 34886.9974  | 32649.0748  | 60939.6499  | 72813.20259  | 200574.8471 | 932769.615  | 923769.615  | 923769.615  | 923769.615   | 923769.615  | 923769.615  | 923769.615  | 923769.615  | 923769.615  | 923769.615  | 923769.615  | 923769.615  | 923769.615  | 923769.615  |
| C22H34O8         | 517783.066  | 205549.927  | 40829.4055  | 355581.387  | 79433.0264  | 158552.767   | 32623.0257  | 774241.8543 | 229671.1819 | 398859.5993 | 48560.3447  | 474349.2546 | 44413.5063   | 27407.8349  | 208019.8096 | 34582.0004  | 23498.122   | 304201.765   | 31460.3627  | 145278.0053 | 45238.00953 | 99307.31143 | 50827.06638 | 9434.34337  | 50458.57776 | 86298.04591 | 44547.3497  | 26779.9301  |
| C22H34O8         | 517783.066  | 205549.927  | 40829.4055  | 355581.387  | 79433.0264  | 158552.767   | 32623.0257  | 774241.8543 | 229671.1819 | 398859.5993 | 48560.3447  | 474349.2546 | 44413.5063   | 27407.8349  | 208019.8096 | 34582.0004  | 23498.122   | 304201.765   | 31460.3627  | 145278.0053 | 45238.00953 | 99307.31143 | 50827.06638 | 9434.34337  | 50458.57776 | 86298.04591 | 44547.3497  | 26779.9301  |
| C22H36C2O2       | 15360.14345 | 43999.37789 | 98120.20581 | 13748.1552  | 30763.27249 | 18742.69316  | 20878.55756 | 100784.9958 | 11873.5279  | 10090.38975 | 13118.62856 | 232947.2368 | 162523.2269  | 122142.6725 | 30737.01133 | 94940.24733 | 57437.40447 | 18374.81145  | 112946.1253 | 84515.60979 | 63626.07493 | 26949.59034 | 46223.31952 | 32785.97797 | 10081.95691 | 10092.0029  | 1031.62621  |             |
| C22H37N2O8P3     | 186376.7798 | 98085.1919  | 22881.36436 | 39714.14885 | 43943.23824 | 35498.51826  | 73566.79104 | 82023.2345  | 67573.07978 | 67086.20918 | 14108.45673 | 48667.37487 | 23798.89467  | 85147.36972 | 44674.19603 | 160307.54   | 1143243.027 | 82861.9013   | 207574.4449 | 101173.8356 | 122893.7395 | 152351.1342 | 174034.2502 | 137487.171  | 68058.1458  | 414528.0831 | 94070.62609 |             |
| C22H37N8P5S2     | 80733.61563 | 7673.2491   | 251682.3181 | 32841.7664  | 29118.3598  | 26579.89581  | 21852.34555 | 22634.3806  | 23105.3477  | 136159.9049 | 80252.26154 | 17331.37149 | 1204076.093  | 278627.6539 | 176165.7619 | 15785.54555 | 20119.82455 | 16782.8316   | 20865.58299 | 14578.99511 | 18784.878   | 18463.84775 | 15874.878   |             |             |             |             |             |

|                |             |              |             |             |             |             |             |             |             |             |             |             |             |             |              |             |             |             |             |              |             |             |              |             |             |             |             |           |
|----------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-----------|
| C23HS6N90SP    | 757364.002  | 724547.5723  | 561762.0037 | 659498.2202 | 477176.1836 | 622680.3817 | 730898.7278 | 449221.6503 | 491538.026  | 585627.6453 | 423229.9359 | 722483.8762 | 645398.5671 | 391100.5465 | 565869.1563  | 480282.8821 | 592235.1287 | 668633.411  | 654755.3316 | 674712.0367  | 610199.7942 | 541358.4694 | 7838884.2854 | 545434.3607 | 316240.1798 | 657253.8812 | 557538.2806 |           |
| C23H6N0NP01P3  | 65914.8259  | 60690.81361  | 55374.95857 | 44789.8584  | 40196.96925 | 41875.64725 | 48069.47052 | 31372.88326 | 33031.11714 | 29963.05796 | 32251.12427 | 30522.33716 | 26892.23489 | 25734.99253 | 1370355.634  | 596200.8389 | 490087.3879 | 671461.3564 | 29263.97024 | 24463.0166   | 28336.63658 | 210203.7471 | 233056.1768  | 183014.9408 | 58536.0808  | 241284.2406 | 185931.8664 |           |
| C24H24I010     | 99130.43982 | 75449.299    | 851331.9057 | 742606.9948 | 1034049.264 | 945631.5392 | 1197893.344 | 642944.6858 | 884909.977  | 741344.1665 | 615810.4516 | 526303.6272 | 335898.4878 | 750056.3336 | 696034.2899  | 927468.7884 | 75637.3822  | 506714.9839 | 2107532.533 | 716987.625   | 992556.9206 | 1306099.968 | 297195.0748  | 887929.403  | 906270.3439 | 722943.42   | 689064.3511 |           |
| C24H25N70      | 23707.481   | 64286.8869   | 20007.8159  | 18126.12301 | 22722.02661 | 22735.92264 | 18081.16331 | 19549.46901 | 17858.7829  | 15826.47565 | 14506.02266 | 15686.18122 | 14512.85897 | 13488.02936 | 669556.916   | 108999.7486 | 84871.56739 | 106527.0698 | 14663.222   | 19270.73614  | 15221.71753 | 343109.1133 | 249919.113   | 51939.34202 | 13922.43417 | 20675.1061  | 20826.13225 |           |
| C24H25N2C02    | 131473.4891 | 210684.0527  | 63331.2917  | 102040.5696 | 20713.6272  | 25552.24707 | 20093.82948 | 29613.36754 | 17415.13931 | 14603.6749  | 90750.6623  | 10589.48124 | 16530.6466  | 64893.16952 | 114100.8364  | 167260.9105 | 43097.3352  | 43097.21265 | 90680.0307  | 19977.42793  | 102499.3552 | 43097.21265 | 90680.0307   | 19977.42793 | 102499.3552 | 43097.21265 | 90680.0307  |           |
| C24H32N04S     | 28617.41462 | 34142.80132  | 27090.28533 | 23485.26188 | 24745.07636 | 22509.46963 | 19598.01464 | 23836.69322 | 252029.9368 | 24048.11103 | 21014.48788 | 24542.50751 | 22651.84585 | 26521.65732 | 230190.478   | 55751.06522 | 71449.82439 | 111255.0872 | 21287.34784 | 22475.13886  | 23005.28302 | 530514.1637 | 1737163.461  | 65835.19861 | 34217.01632 | 21766.57509 | 20630.94262 |           |
| C24H32N05S     | 730128.1251 | 117961.381   | 665321.9181 | 98203.4679  | 560718.4279 | 2377645.589 | 585454.1332 | 823995.413  | 1975957.256 | 338481.8757 | 267820.1591 | 345911.2054 | 411305.6816 | 38116.7297  | 977222.522   | 906505.602  | 496886.78   | 565261.277  | 587744.1864 | 722832.253   | 76460.05316 | 18761.65055 | 1175147.300  | 11873.122   | 146968.3993 | 346132.2563 |             |           |
| C24H34O        | 122450.7838 | 21831.09965  | 135441.8145 | 215265.5421 | 68984.44522 | 65095.4245  | 70797.98408 | 81594.66611 | 75817.30937 | 72062.55194 | 81831.95714 | 92386.99189 | 104140.7039 | 72220.20299 | 95061.97415  | 203965.037  | 122972.0264 | 68692.34221 | 126466.7614 | 161875.5633  | 111334.0796 | 112709.8733 | 26109.21152  | 79681.48004 | 113917.4184 | 107890.4933 | 400866.349  |           |
| C24H35N2P3     | 2815066.68  | 595258.3671  | 3385590.902 | 3431820.598 | 3498290.671 | 4428341.779 | 3054549.601 | 1149452.788 | 2975036.684 | 1123077.877 | 2539780.247 | 1872500.612 | 857302.5937 | 1923014.071 | 3722728.694  | 3194904.92  | 872219.7405 | 2101546.555 | 2363724.437 | 26049414.811 | 99533.66132 | 1994516.982 | 113917.4184  | 113917.4184 | 2510423.166 | 660301.2908 | 2742542.222 |           |
| C24H36O2       | 6356275.258 | 3420505.234  | 807367.197  | 8845662.73  | 631044.1711 | 5656542.596 | 2681375.321 | 3055578.355 | 6267512.799 | 10007501.74 | 7278324.63  | 7191899.987 | 7461407.341 | 19976232.05 | 1105901.897  | 4069538.241 | 3083678.543 | 498017.6632 | 279085.176  | 1117538.273  | 1478764.814 | 73378.82516 | 152403.3786  | 746008.3164 | 389086.394  | 438147.9107 | 689246.8637 |           |
| C24H40O4       | 226188.8496 | 301312.1697  | 264273.7938 | 384895.6601 | 168920.3694 | 321057.2162 | 171862.8735 | 185576.1596 | 330683.9204 | 108129.8237 | 77020.96455 | 234903.6425 | 223823.2566 | 223440.7297 | 342698.6431  | 629855.2174 | 536002.448  | 431876.185  | 214612.7647 | 194235.3613  | 26694.81679 | 94172.05548 | 136250.7677  | 1539237.368 | 384534.6439 | 245779.0128 | 119387.1398 |           |
| C24H41N05S2    | 138756.9502 | 103951.5523  | 126036.2964 | 217311.2846 | 114750.421  | 154266.7324 | 95778.9188  | 113253.998  | 168830.6965 | 278157.8748 | 162553.2499 | 344142.2948 | 342719.7879 | 947590.4564 | 91736.15216  | 160355.4231 | 111388.6583 | 85761.4991  | 148330.079  | 98943.61069  | 151708.723  | 76494.90019 | 86123.81668  | 85970.47258 | 167902.0678 | 113179.6979 | 98981.72733 |           |
| C24H48N07O     | 3961677.021 | 1332265.104  | 5016222.643 | 4350126.982 | 1377995.959 | 1372642.768 | 373589.745  | 794175.7247 | 2170698.155 | 305153.299  | 4376052.394 | 4233056.013 | 1100849.939 | 4288993.01  | 37967122.417 | 1179392.224 | 8077562.856 | 3890047.999 | 5446272.554 | 2524168.627  | 4259083.101 | 3161441.888 | 6033807.146  | 1677117.836 | 3397595.842 | 832680.9521 | 127258.955  |           |
| C24H48N1O03S   | 17629.67621 | 25341.3599   | 17950.12467 | 17418.48024 | 13285.58402 | 14038.07507 | 15283.26947 | 13136.49567 | 12550.3235  | 10967.02383 | 11780.02243 | 22056.99846 | 18545.3291  | 14954.10144 | 33567.91908  | 196151.0719 | 204962.3051 | 36456.71614 | 10961.30192 | 11813.45612  | 11083.70828 | 159148.9084 | 142834.3794  | 85712.32363 | 11080.16247 | 10644.12237 | 11866.69312 |           |
| C24H49N3O8P2   | 10210.0444  | 1405544.381  | 9934.909959 | 106881.2644 | 412445.1295 | 10815.36584 | 9281.817398 | 8575.427786 | 10446.06733 | 8248.220511 | 9188.610979 | 9459.253662 | 8916.19709  | 9650.683217 | 3180730.713  | 261836.2507 | 311664.1914 | 1468098.975 | 9361.848607 | 10662.96883  | 8515.43213  | 14442.98213 | 33382.66988  | 12700.70898 | 8485.528564 | 8995.609282 | 9399.597524 |           |
| C24H50N7O      | 664067785.6 | 130347598.2  | 1053781069  | 658439792.2 | 768454511.1 | 609033004.1 | 442533902.8 | 463658760.6 | 363383705.8 | 44601660.7  | 529849827.6 | 271194072.8 | 531221156.5 | 567796455.1 | 512662425.7  | 782992278   | 48866991.1  | 437130239.2 | 380231076.6 | 432243546.1  | 434095952.1 | 553577802.5 | 146008447.6  | 12680661.97 | 82988515.93 | 5995708.600 | 316300431.7 |           |
| C24H50N8O2     | 24498.98163 | 26800.85924  | 28144.07714 | 26353.00245 | 25544.1898  | 26581.01765 | 24480.68607 | 24077.8778  | 21682.2787  | 22088.82666 | 20281.03814 | 71766.92542 | 64696.8715  | 46167.89227 | 517626.3565  | 454843.8292 | 347072.156  | 303034.2078 | 19199.76659 | 25431.014    | 21579.15196 | 80920.53088 | 156711.3167  | 900816.6692 | 60991.28291 | 74183.1358  | 35790.2945  |           |
| C24H50N4O13P2  | 248158.1501 | 106910.3604  | 169672.4522 | 146939.6006 | 182469.3101 | 62334.30264 | 185699.1747 | 156645.0856 | 899621.7809 | 438251.9515 | 278796.6141 | 64894.77343 | 133608.6259 | 263447.1533 | 358096.606   | 71205.48748 | 176085.1378 | 555825.166  | 14148.1656  | 80683.52588  | 21670.34066 | 171452.2096 | 71752.63157  | 158172.4749 | 43148.15516 | 76444.36486 |             |           |
| C24H50N7O5P    | 172620.7206 | 42330.12414  | 43236.43771 | 40722.21732 | 44067.17167 | 56521.8694  | 38446.41372 | 685150.3698 | 1162256.423 | 208420.365  | 52988.33477 | 70391.0234  | 54354.76525 | 26317.72612 | 4971889.399  | 2563527.359 | 1136526.612 | 269715.518  | 23813.40699 | 50883.5343   | 24548.30938 | 289172.5732 | 3036726.644  | 2609683.91  | 77914.85479 | 336749.0539 | 367469.2309 |           |
| C24H51N4O2P5   | 68274.47637 | 203640.6527  | 61988.7369  | 369219.7088 | 175774.377  | 51361.2131  | 120515.8882 | 188267.8114 | 35904.50667 | 162535.3133 | 153110.0663 | 68921.19878 | 34197.0738  | 1096773.78  | 21602.0176   | 17741.6592  | 741150.0679 | 33220.60699 | 250833.5515 | 167651.0935  | 94530.05774 | 182438.677  | 52104.7446   | 249871.5255 | 216681.1657 |             |             |           |
| C24H55N5O10P2  | 6421934.668 | 4847199.707  | 5895818.836 | 4204526.208 | 4589237.694 | 5408381.36  | 2771736.631 | 3165260.229 | 212373.014  | 3891983.981 | 5881262.112 | 6101582.71  | 4833166.821 | 5003130.34  | 3957231.451  | 7587162.432 | 98655.9698  | 80348.948   | 1768880.231 | 5853427.301  | 5872294.034 | 6012159.672 | 2439507.12   | 3799358.062 | 2036254.408 | 5700948.11  | 3983714.372 |           |
| C23H8N4O6      | 951194.2191 | 1532216.676  | 382356.8344 | 421333.752  | 722197.4931 | 932464.364  | 60584.5108  | 54014.6969  | 145589.0938 | 198989.362  | 381982.916  | 413043.6205 | 31658.3916  | 195731.623  | 381658.3916  | 2789395.062 | 330848.482  | 563063.1314 | 59595.9745  | 708861.0961  | 194608.91   | 137371.4148 | 70447.8944   | 661878.3721 | 98815.8721  |             |             |           |
| C23H4CN3O6P2S2 | 106509.2549 | 119951.11632 | 70423.21054 | 27322.03101 | 26145.2493  | 25490.33729 | 29028.98194 | 59257.32237 | 40484.29195 | 38267.06681 | 68740.50447 | 26705.0624  | 172326.4507 | 86382.17116 | 145919.4652  | 74364.24277 | 31877.1208  | 171739.9516 | 121139.296  | 123242.05361 | 24787.03444 | 226560.0298 | 253484.0351  | 101342.8223 | 4170.78135  | 27474.2669  | 80771.74431 |           |
| C23H4N01O02S2  | 16089.02951 | 29951.1372   | 173777.772  | 1380393.85  | 1407736.782 | 1042138.353 | 120347.953  | 1218414.402 | 102534.574  | 949356.044  | 74506.6988  | 588284.3146 | 537177.1824 | 17875.1824  | 57969.6846   | 176281.4252 | 171949.1956 | 161446.7465 | 828141.65   | 989694.6389  | 325054.0277 | 419624.045  | 645391.7525  | 76341.1     | 76341.1     | 76341.1     | 76341.1     |           |
| C23H4O3        | 126340.7951 | 102808.8439  | 145841.6584 | 117579.3877 | 133551.016  | 129255.1068 | 142606.515  | 116137.8824 | 116547.4619 | 140150.1263 | 119328.794  | 116793.9896 | 117856.8676 | 104422.6309 | 791109.9285  | 1343149.017 | 1133524.42  | 43254.942   | 111061.764  | 115424.0837  | 116678.0149 | 96599.92268 | 96003.30267  | 809947.2055 | 93499.93202 | 106329.5576 | 119119.5076 |           |
| C23H4O4P2      | 53840.483   | 1154620.94   | 872523.5447 | 1155895.652 | 4080744.793 | 5555391.136 | 1122159.142 | 483833.139  | 3158574.572 | 906939.397  | 267050.995  | 912490.593  | 168667.972  | 1746440.97  | 582050.0452  | 1168707.615 | 1832344.465 | 1771465.507 | 673968.1384 | 2447776.651  | 312281.8905 | 1505710.91  | 647299.875   | 196674.652  | 2527586.304 | 894812.0948 | 2709924.76  |           |
| C23H41N1O3S3   | 33197.66888 | 43547.22923  | 69242.62131 | 42813.1646  | 42012.90667 | 73030.79317 | 109141.8082 | 62131.48293 | 44971.35885 | 52193.75212 | 41324.98521 | 30041.316   | 17733.32078 | 19731.53275 | 109141.8082  | 62131.48293 | 44971.35885 | 52193.75212 | 41324.98521 | 30041.316    | 17733.32078 | 19731.53275 | 109141.8082  | 62131.48293 | 44971.35885 | 52193.75212 | 41324.98521 | 30041.316 |
| C23H42N2O2S2   | 1952765.313 | 1929223.008  | 725616.9917 | 2202054.63  | 1549965.807 | 1748343.089 | 10647345.94 | 1529644.540 | 216972.505  | 126078.413  | 32250.28877 | 858669.3762 | 867400.7941 | 607903.5821 | 1913730.718  | 618357.0231 | 2287983.931 | 1039287.073 | 225469.748  | 122515.388   | 1146319.617 | 822837.0809 | 750102.4985  | 1064149.305 | 3245491.159 | 2243699.734 | 808987.3    |           |

|               |             |             |             |             |             |             |             |             |             |             |             |              |             |             |              |             |              |              |             |             |             |             |             |             |              |             |             |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|
| C27HS0N609    | 1279984.415 | 17689.12419 | 63234.70454 | 26339.38339 | 1388037.581 | 71964.75265 | 42957.66341 | 27046.66607 | 44476.58411 | 605053.5182 | 80197.55144 | 29920.97848  | 24529.92977 | 71314.34875 | 529540.4392  | 239374.9629 | 51632.39674  | 27858.67167  | 1159833.529 | 40255.87517 | 183926.2907 | 33702.7488  | 180490.4315 | 342264.19   | 26587.73515  | 27967.56372 | 52666.32415 |
| C27HS0O5S     | 2283491.148 | 2254168.094 | 2285621.415 | 4856148.815 | 3519793.95  | 1951645.224 | 689388.4046 | 411883.14   | 668190.6989 | 3498578.135 | 1846031.623 | 4239476.718  | 3814736.003 | 2522749.406 | 1593975.541  | 1256900.566 | 2368684.93   | 637300.3947  | 1826469.472 | 1167458.162 | 1027623.594 | 437678.5255 | 176059.6657 | 288242.4321 | 1468181.104  | 272849.6524 |             |
| C27HS1O12P    | 1783004.259 | 2013214.294 | 2247095.987 | 3517282.905 | 1480936.159 | 95134.8157  | 1506292.192 | 899978.6688 | 1255129.689 | 2340991.701 | 3981803.465 | 1072623.917  | 2110987.517 | 1238620.578 | 2140324.807  | 2367651.143 | 1171947.418  | 1013860.166  | 960254.2309 | 816373.2149 | 964437.2457 | 462907.5907 | 143770.859  | 908556.401  | 1141862.269  | 763150.2194 | 872016.0402 |
| C27HS4N30PS   | 2142119.45  | 1560233.73  | 1560236.793 | 1554856.974 | 1311357.382 | 375062.942  | 3769036.274 | 146752.964  | 1235375.384 | 4193998.838 | 612937.7769 | 922988.9585  | 1184334.05  | 791334.1557 | 1414071.983  | 882562.2892 | 962379.1026  | 1597210.39   | 982127.9182 | 791370.6348 | 522931.2883 | 1222772.144 | 848934.403  | 819185.4095 | 1010656.292  | 110301.962  |             |
| C27HS6N7O23PS | 680285.1929 | 8005939.412 | 1439572.310 | 5549546.974 | 5854971.793 | 5254027.922 | 3400254.954 | 3561282.983 | 3125071.198 | 461772.1664 | 5280741.686 | 2587725.448  | 438559.514  | 5187825.948 | 1019425.663  | 3101167.525 | 7479143.424  | 4988607.962  | 2260686.715 | 966298.711  | 431426.934  | 4988607.962 | 966298.711  | 431426.934  | 4988607.962  | 966298.711  |             |
| C27HS9N2O8P   | 94420.78054 | 229130.3739 | 305248323   | 97253.30268 | 86620.74988 | 249436517.5 | 245184063.2 | 98782.44666 | 88158.72816 | 72524.7029  | 281445098.8 | 75544.12258  | 88621.07006 | 67953.15343 | 82127.81325  | 125838.8228 | 7981.14792   | 983381.81002 | 78493.86119 | 67855.57537 | 82698.13598 | 79014.0644  | 84934.57784 | 78852.5773  | 73428.89738  | 66307.4929  | 78527.44967 |
| C28H16N4P2S2  | 90384.07589 | 231517.4505 | 317604.7105 | 92620.03198 | 81073.86048 | 87202.72206 | 89118.24061 | 91139.4049  | 65005.74287 | 1478746.966 | 87073.21762 | 80323.41285  | 178599.9195 | 60640.0169  | 1977390.43   | 1198647.173 | 67046.20574  | 68209.67726  | 60899.71394 | 72787.0041  | 72256.11119 | 68839.5221  | 6371.154125 | 63296.09004 | 36040.72765  | 71591.32992 |             |
| C28H20N4O3S   | 483801.6326 | 1600592.721 | 645117.1288 | 737435.8654 | 986503.1266 | 684389.2334 | 325633.5988 | 540292.8143 | 783137.0035 | 212332.2596 | 651342.6765 | 534261.1596  | 598090.8385 | 506494.2768 | 698784.9685  | 711014.9447 | 358700.0259  | 431085.7557  | 628264.0843 | 746676.5304 | 643491.263  | 478528.7594 | 311283.775  | 349065.7935 | 665274.7035  | 654376.4438 | 585672.1189 |
| C28H31N8O3S   | 111585.168  | 294636.9344 | 174013.8859 | 112841.3254 | 112907.1698 | 132644.3689 | 154852.4376 | 123394.3113 | 104907.5799 | 98065.63541 | 130821.4228 | 103820.1284  | 117056.3734 | 9607.84403  | 126523.3632  | 132642.2903 | 109215.5439  | 120982.8036  | 106544.5258 | 85580.47277 | 110621.9051 | 1068999.477 | 1225910.923 | 255875.357  | 97790.56189  | 81860.23679 | 96576.99175 |
| C28H32N2O2P   | 242837.5037 | 46684.13881 | 207717.1055 | 59981.9239  | 156007.3402 | 38048.83276 | 141263.1752 | 209520.5484 | 359859.9865 | 95877.31183 | 95901.63953 | 121227.5254  | 101920.8088 | 148607.0064 | 52160.14585  | 8473.441318 | 8621.384558  | 10425.76841  | 504.388784  | 152986.9745 | 99146.43877 | 21664.3693  | 13603.13848 | 7843.92663  | 148502.7588  | 15656.32802 | 7481.443056 |
| C28H39N04     | 89157.6851  | 88177.42623 | 91283.61147 | 84202.79834 | 84794.73486 | 93942.45155 | 98187.28645 | 88413.30001 | 92472.43721 | 80812.8909  | 113783.2336 | 81273.87434  | 81148.96462 | 70236.57351 | 12173165.879 | 1343191.37  | 1544766.649  | 961377.1396  | 79435.65441 | 73551.00583 | 81944.92134 | 77764.93838 | 102504.6561 | 126326.8944 | 136913.4494  | 800889.187  | 580164.2399 |
| C28H41N4O4S   | 65248.52153 | 63592.34744 | 60948.5417  | 61934.82736 | 64781.20177 | 69522.86909 | 63665.24862 | 62054.71169 | 63068.95996 | 55684.38771 | 66600.09792 | 55026.64072  | 51813.38848 | 48984.26529 | 694141.9837  | 980670.3929 | 1057634.06   | 892862.9259  | 54296.33064 | 51738.90933 | 56035.15537 | 17106656.48 | 2159267.647 | 1441862.219 | 818484.75402 | 43293.93902 | 228057.7931 |
| C28H42N1O02S  | 752565.3774 | 948610.1912 | 2349033.385 | 433567.6283 | 209101.1768 | 652461.7728 | 58456.51088 | 1100063.955 | 1157871.065 | 221357.5789 | 251385.7976 | 11235.5173   | 51174.41862 | 33609.18619 | 71635.6469   | 119615.6481 | 83046.33691  | 71296.62277  | 61446.13634 | 82542.41675 | 216670.0718 | 87729.14048 | 69305.80673 | 70671.81257 | 38281.55743  | 66439.24032 | 37426.91288 |
| C28H50N5O15P3 | 6082.364798 | 6486.76042  | 6708.536043 | 6098.951701 | 5910.031573 | 29061.70854 | 4166.598869 | 5272.992686 | 8233.000498 | 7724.433399 | 7184.836716 | 7334.776746  | 9482.095027 | 6605.314333 | 25089.28236  | 40152.87438 | 52170.02289  | 8102.919524  | 6405.092909 | 5474.314776 | 9067.610124 | 26051.28933 | 29521.25394 | 59492.89637 | 47998.66031  | 51035.33856 | 34964.90573 |
| C28H52C2P5S   | 31031.44505 | 40489.34668 | 29807.68996 | 25524.67608 | 35736.61278 | 29786.61237 | 26403.66853 | 29187.19879 | 27569.12920 | 24847.50191 | 23940.60568 | 26175.06055  | 25731.0534  | 24712.50001 | 133592.8036  | 283644.4309 | 196122.7323  | 40594.66322  | 24734.25236 | 25094.35528 | 23715.87961 | 203844.4822 | 684295.563  | 335001.3533 | 25249.83144  | 31399.86222 | 30774.812   |
| C28H59O8P3    | 88377.4508  | 176981.9055 | 169127.9753 | 65529.1277  | 23618.89849 | 15858.86343 | 183445.0322 | 65799.15822 | 14073.635   | 27462.09972 | 131333.5125 | 457031.2112  | 273887.8807 | 398431.0378 | 83947.00122  | 7174.77769  | 78392.77943  | 40449.82336  | 16718.24068 | 17187.40884 | 15142.82631 | 18183.09736 | 57551.93542 | 158028.5588 | 36430.56467  | 14606.21476 |             |
| C28H61N1O010  | 89061.4801  | 93413.55114 | 4267054.316 | 92606.88804 | 8758.52754  | 3597063.022 | 4484564.651 | 78402.45565 | 824553.1284 | 99568.56525 | 4765259.493 | 7259.22539   | 76702.50297 | 81007.78312 | 86197.8957   | 90453.54807 | 81944.9367   | 777676.0464  | 38043.32411 | 86931.81426 | 82025.49466 | 93501.0875  | 83276.91799 | 99480.43193 | 92946.42146  | 86795.92741 | 83707.08893 |
| C28H62O2S     | 968527.6987 | 335596.9688 | 369594.2189 | 99901.5872  | 160198.906  | 302875.8509 | 602895.9711 | 980477.1465 | 158962.1508 | 63708.20738 | 1017935.646 | 224004.9442  | 128309.5261 | 310123.2078 | 696928.1027  | 696414.8947 | 93739.54599  | 87935.03263  | 473794.1347 | 18019.35883 | 59788.69249 | 139017.9062 | 157498.1965 | 108708.4545 | 368081.1283  |             |             |
| C28H63I2N3O   | 108690.3539 | 531066.8064 | 236396.214  | 248816.8921 | 114172.6958 | 109643.3722 | 132751.1485 | 165879.9949 | 89536.53339 | 63554.56369 | 68267.21992 | 52984.2266   | 93863.71056 | 102623.3827 | 120008.8494  | 68730.10627 | 95233.3114   | 136005.3211  | 101594.8283 | 180754.3799 | 121670.4609 | 52666.3386  | 332663.3754 | 138421.4065 | 141028.485   | 219927.9028 | 153531.3898 |
| C28H63I2N3O   | 222602.1963 | 127001.9831 | 79354.60341 | 146162.2948 | 89042.84527 | 56330.16923 | 62529.33884 | 76266.2216  | 115079.3406 | 39015.86693 | 27606.9872  | 72615.52757  | 47620.58268 | 158362.1815 | 289511.3058  | 133802.6824 | 140995.4794  | 41629.52442  | 35398.97485 | 205512.6446 | 133942.8041 | 74493.4478  | 42068.8245  | 40490.01509 | 36986.92613  | 59203.81853 |             |
| C28H63I2N2O2P | 344638.1257 | 148159.885  | 120208.5798 | 543976.9028 | 467650.3562 | 560350.901  | 461848.3873 | 379107.2841 | 269025.8048 | 43691.2583  | 319921.8886 | 709563.5807  | 268359.6515 | 579912.5628 | 134240.3945  | 165439.0589 | 236300.0888  | 136055.3106  | 789174.6209 | 941344.8409 | 469926.8169 | 31515.6611  | 12059.0637  | 384674.0191 | 122104.1643  | 76927.47735 | 123590.724  |
| C28H63N3O4PS  | 108761.811  | 298024.115  | 220699.9309 | 118570.5793 | 97519.10624 | 126602.0526 | 131849.1254 | 124299.8965 | 118630.6441 | 106699.3187 | 128319.3900 | 1125254.5692 | 101308.3202 | 13450.9377  | 128295.18849 | 86444.25809 | 10621.26991  | 126991.2691  | 96291.83193 | 113687.3778 | 1230486.724 | 1230486.724 | 1230486.724 | 1230486.724 | 1230486.724  | 1230486.724 | 1230486.724 |
| C28H67N9O5S2  | 36597.38729 | 39688.67533 | 32151.82169 | 30703.52177 | 37427.70422 | 32905.177   | 25434.42589 | 26219.43594 | 17428.31277 | 19911.73832 | 17367.54463 | 15358.67403  | 13924.4688  | 19313.44776 | 700088.4486  | 15039.1992  | 62982.74325  | 4298107.7539 | 17934.94869 | 16512.69568 | 17590.05179 | 187656.4349 | 547927.3058 | 157847.0603 | 26018.93394  | 69912.73798 | 81315.43276 |
| C28H68N1O03S4 | 45024.70769 | 26381.88566 | 59906.0887  | 10887.32998 | 9821.798441 | 9591.87373  | 8923.65752  | 11262.871   | 9530.78792  | 10584.82367 | 16617.05123 | 13548.82367  | 16617.05123 | 13548.82367 | 16617.05123  | 13548.82367 | 16617.05123  | 13548.82367  | 16617.05123 | 13548.82367 | 16617.05123 | 13548.82367 | 16617.05123 | 13548.82367 | 16617.05123  | 13548.82367 | 16617.05123 |
| C28H68N2O2S2  | 122592.4243 | 118713.8521 | 131106.992  | 105720.908  | 12525.9902  | 127033.5686 | 144648.3884 | 123319.1471 | 112849.2144 | 105516.1187 | 134848.1872 | 104713.9054  | 104762.6881 | 96193.40087 | 970516.2394  | 882219.2827 | 1123630.645  | 903458.1939  | 102027.6033 | 95036.1995  | 107217.729  | 197478.4953 | 329987.7592 | 491322.7985 | 182872.3244  | 936331.2472 | 951437.1112 |
| C29H44CN7O2   | 4213044.979 | 1009651.925 | 1027534.866 | 4146377.22  | 579819.1469 | 346426.655  | 2095750.344 | 1825097.191 | 1892515.365 | 349251.3038 | 3146943.472 | 1799469.129  | 2545312.936 | 3418329.951 | 2128473.212  | 4191813.266 | 4760447.237  | 1767624.555  | 4320207.317 | 3197477.451 | 255083.136  | 3250600.095 | 1506399.561 | 2219028.454 | 1462545.84   | 3580879.811 | 2226186.172 |
| C29H44N4O     | 175105.8583 | 283777.1692 | 180107.2687 | 107549.0201 | 157115.2212 | 168568.9194 | 173717.3488 | 157913.9268 | 145175.4842 | 153796.2593 | 19551.5945  | 156321.1673  | 137806.1533 | 889431.9228 | 2432911.95   | 783392.8164 | 5753959.0509 | 156597.5486  | 22020.7087  | 160913.3947 | 193570.5222 | 17497.4084  | 15142.82631 | 18183.09736 | 57551.93542  | 158028.5588 | 36430.56467 |
| C29H44O12     | 380655.5114 | 44343.08748 | 42748.6018  | 69682.85508 | 47854.2319  | 49241.46226 | 55338.68098 | 73867.12516 | 37855.29661 | 179243.7906 | 183096.3996 | 36689.05591  | 39038.28436 | 33734.0128  | 65292.77204  | 79254.55397 | 66881.0328   | 37310.2087   | 124682.5844 | 45273.16026 | 53898.75623 | 93830.83535 | 48270.20439 | 115291.599  | 133677.3294  | 14177.198   |             |

|                  |             |             |             |             |             |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |             |             |             |              |             |             |
|------------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|
| C3H5CIN603       | 11922.3483  | 12901.12025 | 13598.01597 | 15991.35935 | 14881.08012 | 14247.3779   | 12813.10445 | 13698.10936 | 12367.96603 | 16496.10113 | 13366.23337 | 18647.94606 | 16620.34787 | 18343.91798 | 11665.20233 | 106251.946  | 103212.0997 | 11163.57365 | 18925.98115 | 15549.0671  | 12983.58706  | 9977.899957 | 10875.78881 | 15207.98372 | 26743.65015  | 35822.26159 |             |
| C3H5CIN80        | 690010.3746 | 462518.1323 | 49139.0221  | 476136.7928 | 508190.1518 | 590200.2466  | 542302.7212 | 493820.0338 | 561702.4035 | 555095.6151 | 497898.5865 | 342079.0757 | 381629.964  | 415582.9714 | 863079.3313 | 359527.9438 | 300922.2939 | 792634.2636 | 476397.1605 | 412640.2075 | 541729.1248  | 251570.0577 | 299416.404  | 334275.5867 | 48593.8628   | 250085.9968 | 251509.5679 |
| C3H5CIN3P1       | 389599.8463 | 485661.4852 | 408066.2291 | 123134.04   | 466773.985  | 138920.8857  | 406982.2622 | 451608.7531 | 399354.9144 | 560282.4459 | 173042.9292 | 407818.8279 | 409928.1795 | 415997.299  | 458116.45   | 387241.1039 | 397586.9842 | 418028.5788 | 469773.1963 | 424903.0567 | 436589.4269  | 409415.873  | 368887.6477 | 398311.0499 | 441361.9622  | 481989.8089 | 449523.5267 |
| C3H5CIN4017S2    | 2357883.161 | 2266610.256 | 2573266.438 | 2239542.556 | 2728225.728 | 2904469.584  | 2286624.514 | 2563774.671 | 6035292.561 | 2170899.578 | 1932223.748 | 3064158.36  | 2865844.25  | 2864299.223 | 2264875.304 | 2973561.912 | 3031493.516 | 217169.765  | 337769.765  | 2420303.562 | 3419951.934  | 3141428.57  | 2668583.04  | 215731.747  | 2183958.305  | 1951587.033 |             |
| C3H5N2P5         | 946575.0373 | 1194460.558 | 806555.2938 | 36727.9145  | 561368.6186 | 736074.6093  | 770976.7019 | 257637.902  | 904586.3783 | 899293.8291 | 791251.9379 | 745767.3776 | 563648.4651 | 298497.4557 | 389891.6794 | 1371331.846 | 1203231.381 | 1304048.159 | 1877469.249 | 73260.6195  | 963137.9718  | 1198647.087 | 391948.437  | 371239.827  | 998589.0016  |             |             |
| C3H5N4P3         | 504452.6261 | 525571.2362 | 930702.1851 | 564423.5529 | 322594.321  | 283787.6172  | 662264.2981 | 991913.8693 | 670460.993  | 558220.2618 | 483155.9883 | 44872.754   | 361027.7509 | 206727.5536 | 333344.5905 | 499158.0875 | 660991.7712 | 216103.0193 | 718941.8718 | 530660.6994 | 685313.4737  | 599290.7022 | 509103.6602 | 474997.629  | 427352.7562  | 263315.1032 | 633643.3471 |
| C3H5N5OP2        | 32093.7637  | 13908.37062 | 15806.39475 | 2859.27143  | 60828.34829 | 35081.41051  | 56190.27137 | 48637.664   | 15224.495   | 25282.70812 | 49671.57874 | 67178.663   | 28172.91173 | 29176.26957 | 53345.50641 | 19323.54031 | 16322.57025 | 172141.3006 | 91627.22486 | 129869.3916 | 8755.937543  | 40373.86111 | 35816.41228 | 57816.0926  | 519009.80498 | 73213.80788 |             |
| C3H5N8OP3S       | 3785107.603 | 1315043.693 | 4823814.196 | 3445513.735 | 4201744.648 | 3988665.664  | 3938607.323 | 2489513.192 | 669767.4734 | 3958081.157 | 138822.4796 | 2934130.62  | 3247741.66  | 271107.938  | 1105706.558 | 804927.0762 | 572721.16   | 1320060.624 | 2251104.659 | 1944712.827 | 1999710.502  | 1097586.137 | 1258738.332 | 2433647.446 | 397058.41    | 215735.2265 | 289235.2605 |
| C3H5P3           | 2281990.807 | 2220978.058 | 2196893.255 | 211701.44   | 2206116.891 | 2698370.317  | 2496174.638 | 2131906.014 | 2339580.506 | 2003979.953 | 2474572.947 | 2640133.149 | 2436107.69  | 2102277.178 | 2198054.478 | 2847788.886 | 2065567.571 | 2286543.235 | 2377232.154 | 2374144.18  | 1285717.057  | 2286331.72  | 2709325.742 | 2223066.498 | 2517989.73   | 2662679.398 | 2244174.843 |
| C3H6N10          | 273942.9384 | 451497.4974 | 249963.7814 | 249945.7613 | 229373.4947 | 201699.7118  | 203006.3153 | 232166.0971 | 171637.2738 | 183017.6595 | 141968.8415 | 16193054.18 | 1689879.96  | 1307016.92  | 1659965.643 | 185651.4725 | 160476.5919 | 15909975.82 | 13538145.99 | 6458528.682 | 5777641.377  | 20223638.53 | 59746971.75 | 34162380.45 | 11226238.87  | 2957670.169 | 5269990.51  |
| C3H6N3OP9S       | 30248.73165 | 57541.49174 | 36089.74965 | 27190.79432 | 47253.72861 | 60721.37774  | 71038.46257 | 40839.20133 | 63647.9942  | 59092.35404 | 29694.38489 | 49874.23644 | 9405.378175 | 36825.03305 | 42683.56985 | 70166.86364 | 56838.59214 | 111883.6378 | 94959.70427 | 26953.12592 | 18073.70815  | 55147.1998  | 108055.8152 | 34040.70006 | 167551.721   | 32398.92325 | 23750.93599 |
| C3H6N6O15P2      | 605950.2603 | 377358.7495 | 520095.5317 | 498396.5026 | 332652.2818 | 433181.9958  | 492571.1179 | 485591.9231 | 634884.3422 | 548045.673  | 243205.1685 | 171727.126  | 506499.9572 | 518182.1108 | 630151.2771 | 433848.6753 | 206504.814  | 541688.1887 | 855329.7185 | 360278.175  | 312382.3505  | 602610.1363 | 797080.2947 | 796356.6133 | 487145.7738  | 387619.3197 | 598973.4216 |
| C3H6N7OP3S       | 36864.14882 | 14097.80953 | 15358.2344  | 12261.44376 | 17227.00292 | 10920.60913  | 23378.59995 | 10787.01365 | 14403.74483 | 101964.8852 | 10735.85325 | 10461.6733  | 11540.1572  | 25383.36297 | 11897.42656 | 15226.30769 | 16780.40844 | 11377.79987 | 11306.80768 | 13011.30273 | 13089.68814  | 11541.64797 | 10710.08115 | 12770.98067 | 36911.46675  | 10697.57165 | 11300.54945 |
| C3H6O17          | 648079.1624 | 468792.9227 | 502580.5871 | 666217.3825 | 524857.4944 | 520632.7899  | 746066.0892 | 528736.9476 | 717221.1262 | 721684.6949 | 515645.8008 | 864795.9493 | 304406.2774 | 797735.1764 | 293322.7041 | 392391.9886 | 602006.384  | 444773.3991 | 628973.1166 | 698903.6625 | 634694.1934  | 323619.0321 | 373215.5359 | 438530.569  | 180090.1295  | 741679.6517 | 413380.6279 |
| C3H7BCi2CIN2OP2S | 2203732.614 | 2441599.287 | 2058474.290 | 2039010.81  | 239085.828  | 1987852.353  | 1989845.105 | 2184496.197 | 2103651.768 | 2108970.477 | 2037188.028 | 2006859.59  | 2302049.909 | 2194665.487 | 1757589.748 | 1487372.834 | 1993677.427 | 229087.705  | 2141864.962 | 1982625.472 | 2022781.601  | 2051476.83  | 2133610.023 | 194367.623  | 1950545.932  | 2024623.206 | 1978446.32  |
| C3H7CIN2O13P2S2  | 640308.6725 | 719643.9611 | 575611.9944 | 626246.1725 | 589185.1725 | 538809.455   | 591078.7793 | 573103.2256 | 614442.8212 | 680943.6133 | 620161.6866 | 635993.161  | 741410.33   | 731591.6847 | 965126.0849 | 528446.4685 | 384650.5788 | 885912.1092 | 593674.8698 | 372625.9807 | 6937425.2241 | 364314.0251 | 555550.7645 | 467423.521  | 690924.8735  | 320269.7363 | 249652.7927 |
| C3H7CIN8O2       | 1430472.062 | 672894.7504 | 2583421.249 | 8182242.195 | 407250.3765 | 609465.0627  | 790291.0906 | 512843.2065 | 332786.4663 | 736274.8754 | 506022.7101 | 1407444.32  | 613331.3814 | 76626.0235  | 556159.9851 | 612253.1372 | 642017.9622 | 1032655.914 | 827058.6695 | 479749.6838 | 623260.3021  | 1758543.998 | 740158.5136 | 98827.9477  | 747316.6531  | 751228.0208 | 908284.8811 |
| C3H7N3O          | 4428400.773 | 4211314.864 | 3267014.667 | 4191241.105 | 3975070.588 | 28073423.665 | 2499583.316 | 528458.0138 | 349916.333  | 324548.8154 | 3788752.510 | 238829.231  | 2104022.586 | 3279004.399 | 2466512.712 | 3170699.44  | 942785.7319 | 437671.011  | 3705066.699 | 5322524.547 | 4759927.408  | 534116.3617 | 339944.732  | 421116.501  | 3047804.959  | 3790931.115 |             |
| C3H7N2OP5        | 323034.3932 | 439370.5957 | 261221.448  | 30019.5767  | 114876.6848 | 273216.351   | 220374.7531 | 296884.493  | 312550.9841 | 179965.8088 | 260231.1605 | 26238.841   | 142463.0728 | 28223.9803  | 248329.7076 | 381084.5628 | 441773.6627 | 467355.7537 | 794665.3688 | 263771.745  | 305911.1904  | 426582.7951 | 697174.3165 | 384233.3952 | 1431664.008  | 542425.714  | 329172.5524 |
| C3H7N3O15        | 142986.3779 | 66642.34526 | 188969.1376 | 153916.967  | 15916.8726  | 160203.1082  | 154283.7435 | 165234.3489 | 202001.3562 | 176831.1293 | 157822.2821 | 189107.9566 | 212603.5965 | 199951.7531 | 172120.703  | 203149.8427 | 122785.3261 | 142535.1391 | 322365.4617 | 260599.134  | 334526.7881  | 192614.3801 | 165866.4617 | 260599.134  | 693426.5804  | 208463.5822 | 232709.5987 |
| C3H8BN15P2S      | 471498.1664 | 329863.4933 | 248632.5654 | 268761.5382 | 331874.9515 | 222495.49    | 342338.6662 | 355491.2639 | 180490.7052 | 285960.8866 | 200964.1044 | 190165.9403 | 268767.3074 | 247187.1256 | 299426.1365 | 395222.3104 | 8105.09652  | 237452.7527 | 288018.0779 | 31171.51166 | 280791.0707  | 172505.1555 | 80273.9214  | 145796.1256 | 235950.6123  | 437076.012  | 126250.5616 |
| C3H8CIN1OOP5S2   | 82940.7073  | 54602.60515 | 60514.16186 | 39059.74668 | 70750.67427 | 83114.7691   | 40553.5996  | 60252.49831 | 52562.74988 | 5900.10329  | 42375.76735 | 63176.6183  | 51301.7712  | 62576.63378 | 59048.3226  | 52040.47728 | 39678.3998  | 100440.4077 | 73554.97661 | 21007.7190  | 58993.15109  | 38865.37371 | 67088.22732 | 40242.0471  | 43524.95818  |             |             |
| C3H8NO7P3S       | 1817960.887 | 1770479.226 | 2298399.905 | 1678561.896 | 1345663.267 | 1150326.041  | 840083.9398 | 1564968.98  | 2103693.738 | 2256752.328 | 2402756.694 | 2140906.554 | 2291303.28  | 200351.963  | 285337.131  | 1870661.781 | 1870600.867 | 29847.2597  | 271730.7176 | 2497631.616 | 2359689.983  | 1518247.482 | 1676062.942 | 238492.952  | 213171.0098  | 123171.008  | 3388407.258 |
| C3H8NO8P5S       | 21295.7626  | 110047.517  | 21329.616   | 164294.6533 | 236269.8102 | 364734.327   | 55116.5833  | 30454.9627  | 124067.7952 | 104287.754  | 246646.1891 | 23548.063   | 103398.8147 | 218901.1502 | 182263.3147 | 1083398.81  | 108349.265  | 8215.52815  | 14971.0019  | 144173.8257 | 44315.8529   | 47030.1092  | 13135.8849  | 26971.4996  | 37935.9326   | 322547.594  |             |
| C3H8NP5          | 277934.273  | 576264.0072 | 1172892.543 | 825885.3132 | 1680833.976 | 404020.7439  | 609259.4129 | 877617.4675 | 2101364.415 | 56195.5486  | 849007.6154 | 299766.6093 | 428742.9765 | 385084.0076 | 59006.6346  | 665145.5551 | 513622.6442 | 1126005.934 | 823995.451  | 712860.6198 | 857945.1795  | 1262984.64  | 184530.9622 | 94371.9123  | 548950.6689  | 868420.6513 | 751837.4022 |
| C3H8NP5          | 599757.1895 | 201191.1098 | 13755.9378  | 225494.6255 | 129868.4513 | 291227.6219  | 142292.3924 | 186785.2925 | 71115.5913  | 123281.070  | 93055.8627  | 54518.8548  | 132479.1873 | 192106.7686 | 107559.5466 | 175509.1357 | 124548.8308 | 58676.86248 | 58341.63194 | 35655.85419 | 194622.361   | 109310.0487 | 67762.79913 | 106689.367  | 241507.9775  | 85750.671   | 10615.9639  |
| C3H8NP5          | 568097.8362 | 1369001.25  | 319069.8408 | 54264.2416  | 169260.2963 | 156223.337   | 232974.6155 | 217571.4291 | 261460.7447 | 79490.89032 | 327216.52   | 175717.4291 | 261460.7447 | 79490.89032 | 327216.52   | 175717.4291 | 261460.7447 | 79490.89032 | 327216.52   | 175717.4291 | 261460.7447  | 79490.89032 | 327216.52   | 175717.4291 | 261460.7447  | 79490.89032 | 327216.52   |
| C3H8N2O18P2      | 35904.38647 | 49592.64771 | 10965.22264 | 60501.73348 | 10088.91594 | 39055.73948  | 63798.83142 | 54226.44527 | 1911.59603  | 5117.39094  | 82342.3489  | 9912.282373 | 111509.9003 | 100543.3573 | 13436.38941 | 4190.49954  | 10728.12721 | 9617.290518 | 67983.70367 | 68451.74834 | 41246.08128  | 24779.91022 | 7939.917435 | 40689.56686 | 10916.83125  | 8934.31463  | 13703.6884  |
| C3H8OP9S         | 49078.9613  | 51008.2447  | 53283.2518  | 148522.2518 | 37858.5853  |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |             |             |             |              |             |             |

|                  |             |              |             |             |              |             |             |             |              |             |             |             |             |             |             |             |             |             |             |             |             |             |              |             |              |             |             |
|------------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|
| C3H47N01O2       | 12368911.41 | 15637005.08  | 16525069.09 | 10158666.94 | 11914971.27  | 10573344.48 | 8689985.97  | 9065262.821 | 6241489.902  | 7610977.513 | 7176176.778 | 3286938.99  | 6691524.3   | 8040423.606 | 7279095.57  | 14418984.38 | 7962419.817 | 2296043.089 | 6681211.754 | 5764428.02  | 7021749.855 | 6009424.657 | 2409449.667  | 6970069.435 | 3139215.445  | 11841261.18 | 6255306.498 |
| C3H38N4          | 198967.1654 | 60021.5561   | 48100.40343 | 22879.41498 | 70482.92182  | 57371.54924 | 31030.52788 | 61159.98841 | 48921.47307  | 94084.1746  | 203825.7505 | 348717.0516 | 169025.545  | 182184.7966 | 119221.3777 | 159102.5464 | 31832.05431 | 127831.7373 | 430894.4649 | 89163.37293 | 178463.6564 | 177468.0042 | 106324.946   | 105752.4542 | 73138.1336   | 575259.3372 | 6817.6813   |
| C3H43O3S         | 386679.8701 | 363197.1062  | 351085.7593 | 365746.3195 | 236758.557   | 165788.415  | 321065.4173 | 264287.0096 | 577294.7224  | 105555.7823 | 232524.4601 | 239666.6109 | 109488.0798 | 193201.186  | 285626.2494 | 343865.8538 | 233535.9039 | 24011.485   | 178750.2841 | 52002.8199  | 220343.6307 | 171486.8264 | 186341.4712  | 212055.8647 | 213915.5859  | 223690.332  | 373177.5723 |
| C3H38N4O7        | 47162.75434 | 34395.52927  | 116538.2563 | 59192.81752 | 136292.7197  | 18496.89403 | 63774.03344 | 54673.84952 | 34666.72977  | 66545.5931  | 66272.43304 | 110063.079  | 44680.52754 | 131346.6016 | 659726.4114 | 500635.939  | 206628.677  | 43525.86559 | 172119.1576 | 29640.61241 | 723271.23   | 26055.18391 | 37035.9338   | 8401.16212  | 125030.6465  | 3425.06105  |             |
| C3H45SC2N3O5S    | 681.1573661 | 150444.4886  | 82839.79027 | 60259.92407 | 143230.80065 | 67907.97012 | 16672.32251 | 54493.8851  | 86414.1182   | 58182.53293 | 37609.83616 | 16259.35667 | 244695.3667 | 16529.55667 | 124227.1218 | 59718.85353 | 77066.34676 | 25704.21132 | 26999.91279 | 21266.51971 | 61662.91687 | 185471.5857 | 353735.06355 | 78663.53139 | 100560.8999  | 17510.53557 |             |
| C3H44O8          | 3570232.217 | 177409.1075  | 4289345.066 | 472880.8947 | 510146.838   | 73911.58182 | 1787272.666 | 234039.597  | 2913123.156  | 320683.2561 | 676016.4164 | 3429848.163 | 742252.143  | 240706.265  | 2991639.992 | 3573753.780 | 237753.762  | 2019329.699 | 3359532.93  | 192510.2239 | 3321072.92  | 1087556.301 | 1641776.738  | 1074518.579 | 177018.4009  | 1097875.367 | 106150.94   |
| C3H471O1TP3      | 57906.89771 | 150444.4886  | 82839.79027 | 60259.92407 | 143230.80065 | 67907.97012 | 16672.32251 | 54493.8851  | 86414.1182   | 58182.53293 | 37609.83616 | 16259.35667 | 244695.3667 | 16529.55667 | 124227.1218 | 59718.85353 | 77066.34676 | 25704.21132 | 26999.91279 | 21266.51971 | 61662.91687 | 185471.5857 | 353735.06355 | 78663.53139 | 100560.8999  | 17510.53557 |             |
| C3H34N8O6        | 142476.1519 | 145957.3196  | 136453.0156 | 131148.3362 | 168609.7762  | 130385.2568 | 133888.9735 | 124786.4565 | 161032.1934  | 136955.8034 | 133758.0754 | 157238.7411 | 136837.8059 | 118308.5135 | 153246.968  | 135819.8155 | 116231.1337 | 989539.2593 | 183580.4302 | 115351.165  | 118851.5828 | 2705311.823 | 15100557.57  | 119186.7314 | 114260.2715  | 155141.0458 | 133226.0833 |
| C3H38N8O5        | 584804.4072 | 255351.7947  | 714577.9645 | 393826.4223 | 617214.1625  | 632195.5734 | 601607.7951 | 186873.5846 | 518703.9273  | 462581.1817 | 429267.5343 | 177432.8489 | 248578.6429 | 153237.6445 | 294110.5975 | 345396.0737 | 269614.3591 | 166458.4772 | 458093.3873 | 499431.6916 | 380685.6188 | 284354.7672 | 374318.5301  | 544042.1213 | 589052.7197  | 194064.5148 | 528937.5434 |
| C3H53N01O2       | 11309.05946 | 12167.604    | 12047.51828 | 10621.19972 | 13579.42464  | 13143.03657 | 10094.58183 | 12093.5785  | 11610.85219  | 15952.81546 | 8069.647974 | 8661.215727 | 9307.272815 | 7791.591985 | 237906.082  | 386435.2863 | 357190.7959 | 34656.1254  | 820.855575  | 16281.37398 | 22219.04392 | 9285.157782 | 9429.86897   | 32777.2289  | 8763.280607  | 23528.8863  | 9420.720391 |
| C3H62O9          | 80381.28842 | 206781.4008  | 341794.921  | 80679.27026 | 73553.5938   | 2872550.362 | 2437416.227 | 77481.40795 | 78799.22531  | 66017.42709 | 333176.754  | 69882.01546 | 80940.97001 | 64012.87338 | 76155.37772 | 73669.49772 | 64320.37787 | 79583.74102 | 69877.58169 | 62949.48105 | 74837.64343 | 62939.19551 | 67854.54436  | 64723.82623 | 66384.33313  | 61264.731   | 68159.20815 |
| C3H567BN05P      | 1230913.314 | 14241.66.817 | 918223.071  | 1179996.579 | 990413.248   | 908087.3953 | 1121085.599 | 1250060.415 | 1050744.03   | 1458637.563 | 1275935.701 | 1294346.692 | 1424223.3   | 1255839.997 | 1832643.426 | 1228045.979 | 1148025.266 | 1715495.329 | 1451181.857 | 1401576.495 | 1132987.232 | 827731.0067 | 1356802.539  | 1303952.063 | 1263541.51   | 1573002.293 | 1464605.934 |
| C3H71N2O5S       | 982701.9187 | 1492010.349  | 1455534.88  | 2330067.625 | 1710940.466  | 1323256.666 | 751582.1102 | 1029977.129 | 1169578.805  | 704017.8233 | 1063154.906 | 1141444.202 | 962896.1437 | 1175034.336 | 921226.8176 | 1011970.716 | 962977.5564 | 822777.039  | 1423589.07  | 1010419.467 | 493480.563  | 1160817.793 | 643767.1464  | 826498.0228 | 1282141.61   | 1356683     | 883803.7992 |
| C3H30            | 62733.95195 | 56594.81435  | 57524.09795 | 63466.17897 | 68651.24522  | 69272.07594 | 65412.53519 | 70725.15144 | 64644.10998  | 57303.91374 | 69613.69978 | 60997.87697 | 59322.25189 | 56084.46694 | 214779.9012 | 498125.5186 | 465013.1816 | 289493.703  | 61721.2101  | 57648.85798 | 60465.25838 | 857137.0576 | 1232693.507  | 862925.1895 | 51441.05433  | 46107.03668 | 47300.5334  |
| C3H316N8O8       | 28626.62735 | 36236.48228  | 31008.62504 | 30312.49165 | 27332.84163  | 23672.07216 | 2130.39815  | 19325.17199 | 18114.00981  | 17408.93698 | 16942.40017 | 14368.57589 | 16388.2446  | 18051.77012 | 319647.4927 | 37602.43047 | 1260.06506  | 179147.3834 | 14616.17658 | 16445.2174  | 16818.7043  | 455648.8426 | 3755539.41   | 39576.70499 | 17763.30511  | 2002.62529  | 18053.18371 |
| C3H44N2O4        | 2109552.511 | 912166.3773  | 918178.3858 | 1252497.181 | 1001127.737  | 890694.1641 | 316803.6584 | 523179.3735 | 1276914.863  | 91696.7367  | 7610977.513 | 7176176.778 | 3286938.99  | 6691524.3   | 8040423.606 | 7279095.57  | 14418984.38 | 7962419.817 | 2296043.089 | 6681211.754 | 5764428.02  | 7021749.855 | 6009424.657  | 2409449.667 | 6970069.435  | 3139215.445 | 11841261.18 |
| C3H58N7O18P3     | 1181342.741 | 1176718.405  | 1047397.383 | 1112564.812 | 1105739.839  | 1112126.453 | 124357.521  | 138969.527  | 1100095.355  | 139444.6174 | 1260815.541 | 1834527.065 | 1663217.405 | 1498192.6   | 1160929.676 | 1343326.796 | 1197522.759 | 1416828.331 | 146520.846  | 1412780.652 | 1382452.52  | 1428888.138 | 1157768.311  | 1350450.147 | 114244.632   | 119168.356  |             |
| C37H7N02P2       | 20365.81292 | 30877.07212  | 19442.65475 | 18226.20029 | 14456.9655   | 14472.99803 | 18195.00253 | 15288.13576 | 14302.83712  | 16096.93274 | 11857.54165 | 13649.3127  | 66160.11364 | 85820.66509 | 257746.1901 | 290331.2661 | 528965.1213 | 114192.444  | 11324.59125 | 12759.58866 | 11519.81983 | 329020.537  | 483917.2486  | 467575.2308 | 11283.84247  | 12526.4142  | 13610.29609 |
| C37H9O2P         | 408083.4862 | 428592.6528  | 442585.5456 | 519006.6345 | 1284086.888  | 488105.7638 | 360341.1967 | 376755.6268 | 617067.181   | 235309.1405 | 293837.7209 | 71728.99205 | 324598.7733 | 302688.5532 | 276214.8694 | 531004.516  | 530662.924  | 239584.721  | 413220.504  | 891236.6851 | 321504.0863 | 248880.4529 | 381333.3466  | 249067.8081 | 247004.6385  | 315163.579  | 648814.100  |
| C37H49N9O3S      | 38850.72547 | 38159.17136  | 33305.63544 | 26535.07434 | 24113.15678  | 25408.95236 | 27574.86036 | 18692.5632  | 19422.19118  | 17088.18206 | 17578.98498 | 12794.46993 | 16298.15578 | 613888.9478 | 768191.4505 | 420418.8958 | 47482.01884 | 17819.7599  | 14771.55335 | 17206.05915 | 150651.5611 | 248172.3693 | 72195.635    | 16735.05598 | 16077.7744   | 17328.96868 |             |
| C37H49O5P        | 59171.74394 | 58340.4937   | 184558.9278 | 60116.69781 | 73991.05686  | 106092.9684 | 147771.4064 | 59936.98764 | 847981.61367 | 56360.60531 | 72553.52168 | 52068.97486 | 47256.87669 | 45770.89703 | 55057.75851 | 1378157.956 | 1050762.839 | 41350.87106 | 50833.10585 | 51793.27415 | 43320.57858 | 42761.7065  | 43967.047    | 331882.657  | 45751.59569  | 353500.8817 | 361107.4467 |
| C37H86BN5O13P2S3 | 752623.445  | 1053323.346  | 80512.1846  | 913740.2178 | 71170.4217   | 708862.4632 | 82749.5966  | 925347.8    | 549185.481   | 93502.6715  | 132952.9921 | 1334518.31  | 1393525.035 | 1304972.82  | 1032952.37  | 83798.3248  | 105376.135  | 1192747.367 | 1170838.706 | 106824.341  | 740964.2059 | 938132.1024 | 108846.47    | 740954.572  | 1251875.103  | 93407.01414 |             |
| C37H82N4O12P2    | 2547876.173 | 307696.925   | 283521.577  | 364379.2734 | 134275.005   | 52025.5696  | 40370.14292 | 40758.15621 | 50874.69942  | 82477.62948 | 78640.88738 | 62435.85688 | 125759.964  | 171767.6208 | 167281.7828 | 460831.3816 | 248670.8364 | 79020.8837  | 69866.49136 | 543351.6567 | 566685.8898 | 108875.3614 | 97739.4743   | 706026.455  | 528540.471   | 29347.56109 | 280103.6741 |
| C3H861N04O       | 25236.3083  | 59396.3747   | 142924.5654 | 259262.7778 | 119774.4304  | 155800.8591 | 45484.00576 | 41584.2576  | 42202.5068   | 27484.1369  | 12245.38442 | 17884.15459 | 59004.46269 | 14780.2678  | 643222.3092 | 298958.654  | 83240.77526 | 36682.77526 | 372541.967  | 320101.7887 | 15987.7998  | 20520.8783  | 27339.97262  | 26213.87397 | 249679.5094  | 31416.0473  |             |
| C3H863N4O15P     | 10002.11612 | 10411.87514  | 10539.91664 | 9129.847789 | 9451.535778  | 9611.153524 | 8163.113071 | 7956.892399 | 9076.716166  | 9346.036279 | 7848.68075  | 278920.3371 | 212034.447  | 18122.12757 | 16495.52813 | 31327.28834 | 19303.11603 | 9598.142799 | 7624.608953 | 8457.07101  | 8826.040975 | 51154.95667 | 76902.61064  | 29257.26415 | 9752.163911  | 9990.416523 | 8548.678937 |
| C3H962O15        | 31933.75105 | 37225.6829   | 32231.0227  | 30848.62789 | 31912.52022  | 27877.15094 | 20662.48433 | 21267.96065 | 17780.23266  | 20927.83206 | 17873.97994 | 16059.61878 | 13491.31894 | 15699.388   | 79188.4699  | 451529.4862 | 270058.6269 | 137234.5732 | 18922.20099 | 15853.36039 | 19015.67699 | 345749.4148 | 103353.876   | 22007.92929 | 15299.44133  | 24738.67773 | 35511.66966 |
| C3H965N4O3PS2    | 2084506.628 | 2325066.021  | 220030.1199 | 2274115.304 | 1617985.666  | 2198113.852 | 2052532.181 | 2217577.495 | 137722.102   | 741709.238  | 1367625.816 | 151414.122  | 161713.586  | 157172.7802 | 1846299.924 | 622422.6592 | 654242.9025 | 559826.2266 | 558983.3378 | 353487.295  | 487359.0074 | 774725.4715 | 632310.0489  | 10750.3477  | 677121.7204  | 671351.671  | 72277.4774  |
| C4H1C2O10P5S     | 1674266.469 | 2137364.942  | 155302.258  | 1742806.05  | 1796606.315  | 1363621.526 | 136906.337  | 226645.887  | 170527.938   | 88028.145   | 179645.9047 | 1427258.638 | 2045762.641 | 2106079.129 | 21791.9124  | 153854.944  | 145373.317  | 2009099.784 | 1770044.261 | 205627.7401 | 711983.075  | 1703123.459 | 237255.5307  | 1040975.004 | 15201.37.769 | 1671878.201 | 1795930.17  |
| C4H1C3N03P       | 567278.0065 | 693889.6645  | 508         |             |              |             |             |             |              |             |             |             |             |             |             |             |             |             |             |             |             |             |              |             |              |             |             |

|                 |             |             |             |             |             |             |             |             |             |             |              |             |             |              |             |             |             |             |             |             |             |             |             |             |             |             |             |            |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| C4HE3CN06P      | 731540.1013 | 855768.9379 | 653134.1443 | 521728.8485 | 692476.1305 | 358733.9623 | 551632.9802 | 570294.8087 | 589446.6293 | 595897.6092 | 622895.0641  | 171709.1977 | 113053.8411 | 293234.9048  | 947429.2007 | 307816.205  | 278388.4152 | 987573.2775 | 263370.3393 | 144683.1943 | 875506.5274 | 456552.7463 | 700435.2123 | 474163.365  | 493585.1707 | 373559.6049 | 301317.0694 |            |
| C4HE3CN2011P2   | 2309863.72  | 24570657.15 | 22821026.14 | 22711139.51 | 21682747.43 | 20271917.35 | 21767375.73 | 22537887.72 | 22217199.48 | 22628576.36 | 22460778.75  | 23436036.15 | 21638826.96 | 22437760.76  | 22872548.05 | 23166302.72 | 23361034.29 | 22433220.49 | 22980293.75 | 2400263.69  | 22637838.17 | 20864341.14 | 22684981.26 | 22243960.61 | 23264205.37 | 23569685.37 | 24526749.8  |            |
| C4HE3CN2018P2S5 | 83025.56204 | 70905.96249 | 57533.83635 | 48022.01361 | 77024.83537 | 110182.6733 | 96523.97274 | 44506.8103  | 98789.8767  | 45407.57806 | 92140.76696  | 140067.2424 | 91235.49712 | 116972.7287  | 47487.32256 | 104148.5176 | 87368.30616 | 87836.33208 | 36387.06354 | 67255.55275 | 100776.8762 | 136452.8445 | 225991.845  | 94564.90352 | 65012.90268 | 158298.4805 | 92856.18561 |            |
| C4HE3CN609P2    | 5870040.263 | 4818993.856 | 5074437.377 | 4786782.254 | 3998013.602 | 4432306.744 | 4865037.219 | 4177687.651 | 480031.977  | 490407.256  | 556145.178   | 5866431.705 | 3946534.353 | 321215.413   | 3404170.885 | 5180765.782 | 530387.552  | 572920.3424 | 5366070.956 | 5539721.885 | 5866859.989 | 534491.967  | 3728034.178 | 517200.184  | 5202249.864 | 5583796.94  | 5084697.44  |            |
| C4HE3CN205P3    | 4488377.055 | 6597272.235 | 6636107.577 | 3907919.23  | 6174703.398 | 3811068.705 | 6120052.701 | 6051467.325 | 30117.1879  | 3927907.997 | 3423005.848  | 3888125.763 | 4542378.364 | 25927488.217 | 359217.238  | 3544373.864 | 2593385.368 | 2997420.423 | 3565247.241 | 3038815.089 | 2919163.98  | 3996614.42  | 374200.544  | 349203.183  | 377195.397  | 3627236.375 |             |            |
| C4HE3CN40P2     | 138768.2996 | 89325.11757 | 153638.9219 | 137239.6312 | 10777.9565  | 136596.4515 | 115605.7868 | 114121.1296 | 99796.18228 | 129843.8268 | 140051.5472  | 105021.0614 | 230946.625  | 115948.0929  | 21245.1947  | 236954.9784 | 129089.973  | 286758.4657 | 132253.6115 | 167893.421  | 132365.6335 | 49672.34923 | 87510.61569 | 159210.6012 | 258013.7439 | 133004.8125 | 115578.244  |            |
| C4HE3CN20P5     | 68029.11695 | 239944.248  | 86598.1675  | 15712.2377  | 169298.2067 | 684439.6401 | 41679.53654 | 114276.6062 | 35129.20413 | 26001.88611 | 103947.4831  | 30835.65269 | 23875.9435  | 26533.36604  | 25834.94268 | 18062.49344 | 33910.08152 | 36731.65794 | 19327.26362 | 18461.69152 | 17387.39637 | 16689.27445 | 45979.86411 | 69169.35861 | 34817.22181 | 17973.70151 |             |            |
| C4HE3N2P        | 1003863.993 | 832032.5782 | 897456.8642 | 1019277.909 | 590897.2381 | 744400.5375 | 904286.0563 | 796862.0147 | 877418.547  | 727737.6119 | 833095.6193  | 706194.8545 | 522081.0253 | 1023553.976  | 1016583.065 | 1558119.371 | 1384520.523 | 1574084.832 | 1913243.664 | 945719.8203 | 759724.8425 | 1465863.02  | 25601.28876 | 106943.564  | 3002373.989 | 1191765.083 | 1044599.056 |            |
| C4HE3N30P2      | 1374107.911 | 4954129.837 | 1423485.665 | 474211.5065 | 1011311.971 | 1040400.767 | 1469656.583 | 1658881.332 | 1149849.669 | 627606.8333 | 499765.5466  | 829287.2419 | 940115.7878 | 549356.6739  | 2365572.335 | 593797.0223 | 631285.7486 | 3605882.954 | 406764.2041 | 145773.2466 | 656820.9666 | 1271612.604 | 1216814.289 | 637083.1746 | 956394.1827 | 1260227.196 | 1164749.232 |            |
| C4HE3N30P2      | 897205.8105 | 996204.6365 | 1110989.429 | 1041656.718 | 831947.87   | 852396.0173 | 934838.5759 | 865451.2416 | 926253.6521 | 999230.9208 | 96805.0086   | 916647.2603 | 890790.9188 | 921695.3435  | 975675.1677 | 878955.6263 | 925217.4222 | 1021835.909 | 1069711.701 | 1169664.251 | 962372.4757 | 867207.9911 | 894149.8335 | 996916.6267 | 917011.7698 | 769995.9409 | 798723.6362 |            |
| C4HE3N20R8P5    | 568136.6707 | 676351.6212 | 662426.6726 | 470731.3323 | 320057.3418 | 328987.1115 | 580988.8549 | 294245.2733 | 531646.0172 | 443851.338  | 700844.3614  | 741041.2457 | 218593.8705 | 253860.0012  | 210618.1718 | 885238.3719 | 909632.8406 | 648266.665  | 649045.2357 | 755711.639  | 1011897.55  | 868448.5155 | 299982.1488 | 560795.5953 | 682903.5766 | 676393.9653 | 723439.107  |            |
| C4HE3N30P2      | 112937.8748 | 630038.9476 | 106152.5276 | 58635.09088 | 143699.7934 | 115446.4047 | 200084.5562 | 33231.46721 | 155216.2851 | 59362.3571  | 53599.19725  | 105981.8734 | 133140.2662 | 82604.99691  | 589890.393  | 108387.4631 | 88209.92967 | 606899.6843 | 24419.84251 | 77091.46635 | 74775.68061 | 256925.7845 | 332495.8707 | 49241.98925 | 131206.3433 | 207136.4278 | 199592.087  |            |
| C4HE3N2N60T2    | 445188.9881 | 577169.4809 | 377774.6687 | 423014.8944 | 423934.3614 | 389173.2847 | 409574.1062 | 415653.5519 | 370789.9392 | 453609.4022 | 366176.8346  | 406491.109  | 459716.2186 | 489191.5533  | 760185.2975 | 294497.3553 | 244890.4832 | 745073.048  | 390767.2296 | 539900.7584 | 396953.3787 | 221395.9287 | 313221.0839 | 265241.1127 | 429228.6747 | 197809.6883 | 152773.7974 |            |
| C4HE3N20N3P5    | 906465.7928 | 991604.4363 | 963499.2624 | 663461.3261 | 887096.9203 | 588567.1211 | 707962.017  | 807800.3005 | 551480.6452 | 851733.5964 | 848187.0784  | 216870.6862 | 254943.2524 | 283439.4649  | 99082.539   | 256844.3589 | 325791.8024 | 1130965.888 | 301041.5323 | 984034.3966 | 817735.775  | 609097.9555 | 765459.0769 | 540330.9029 | 667279.5978 | 450799.1583 | 426806.1766 |            |
| C4HE3N7P5       | 28908.282   | 319267.834  | 259805.1148 | 371602.5578 | 347776.3967 | 217111.104  | 252371.1919 | 314335.7332 | 464684.02   | 297010.5469 | 346238.1582  | 688073.728  | 969224.2902 | 938487.447   | 1611539.039 | 1259525.252 | 1159961.992 | 1440278.966 | 223237.4052 | 1157199.646 | 819095.514  | 247872.922  | 373414.127  | 1076915.813 | 1152839.213 | 649651.0188 | 488408.2161 |            |
| C4HE3N2011P2    | 1936494.573 | 1884960.227 | 1795301.059 | 1679850.029 | 2010975.38  | 2036092.14  | 1618964.691 | 2035819.826 | 1566535.803 | 1853783.625 | 1593799.752  | 2751552.321 | 4358783.255 | 1884965.44   | 1778287.749 | 2778441.181 | 1539268.721 | 2714699.051 | 2454313.38  | 2182329.028 | 217563.721  | 2146999.051 | 2454313.38  | 2182329.028 | 217563.721  | 2146999.051 | 2454313.38  |            |
| C4HE3N40Q2S     | 82349.68106 | 54355.22219 | 60651.47768 | 59262.46443 | 59383.79238 | 64078.46331 | 69035.00441 | 6145.481041 | 54403.93256 | 68336.17611 | 41456.407401 | 67801.49352 | 56897.90569 | 41171.70621  | 50029.86611 | 34044.9228  | 31892.64503 | 59520.25033 | 68682.27922 | 69685.91088 | 81082.51252 | 29948.6981  | 36549.03367 | 49139.96128 | 42886.53714 | 15984.89716 | 17655.79284 |            |
| C4HE3N30P2      | 85938.32746 | 97932.60064 | 68598.1675  | 58188.56816 | 61432.38657 | 57239.6531  | 66100.86891 | 84769.28494 | 71523.25173 | 69789.56821 | 76521.74924  | 52690.33686 | 68936.74659 | 73087.97367  | 58796.31878 | 37432.76932 | 39213.80383 | 64510.1918  | 67707.54729 | 69603.30075 | 62372.91165 | 52229.16049 | 42991.59529 | 46133.16526 | 52290.3566  | 47433.71248 | 48431.75846 |            |
| C4HE3N40P2S2    | 687631.9896 | 853167.6293 | 748681.6703 | 543231.387  | 643942.1673 | 324303.3828 | 569725.3945 | 624415.1255 | 547013.2054 | 662751.5566 | 686093.3574  | 275837.0305 | 277458.6768 | 226561.0088  | 749352.4688 | 259428.8759 | 251610.5688 | 833803.8889 | 294673.1675 | 840054.5887 | 771989.2731 | 504307.7815 | 746614.9248 | 397175.7263 | 572490.8675 | 344651.4665 | 33171.63779 |            |
| C4HE3N30P2      | 147829.7706 | 107785.9793 | 124841.6039 | 121524.2656 | 90780.3645  | 117120.322  | 12078.6766  | 98760.7845  | 117120.322  | 12078.6766  | 98760.7845   | 117120.322  | 12078.6766  | 98760.7845   | 117120.322  | 12078.6766  | 98760.7845  | 117120.322  | 12078.6766  | 98760.7845  | 117120.322  | 12078.6766  | 98760.7845  | 117120.322  | 12078.6766  | 98760.7845  | 117120.322  | 12078.6766 |
| C4HE3N20P       | 1164966.62  | 1069697.322 | 1014477.89  | 1250047.858 | 572961.6926 | 813533.3628 | 964589.6161 | 103858.688  | 151985.447  | 944547.0773 | 109329.6106  | 796822.3697 | 614285.2656 | 1200904.558  | 115527.987  | 180297.2929 | 165730.838  | 193735.622  | 24129.0665  | 116457.512  | 262123.8958 | 1724382.522 | 903683.3703 | 1341852.577 | 3695038.916 | 1428763.847 | 1348955.96  |            |
| C4HE3N306       | 190987.616  | 1378611.086 | 1724127.006 | 1247217.006 | 1047405.595 | 1243545.998 | 151085.378  | 158469.417  | 1412880.509 | 2032494.415 | 616245.1085  | 28888.2081  | 5413994.683 | 403104.379   | 374245.8511 | 463908.5115 | 114680.975  | 2864114.043 | 3763902.117 | 362532.796  | 36417.5145  | 40718.445   | 306378.1265 | 388481.765  | 283768.425  | 3721665.786 |             |            |
| C4HE3N30P2      | 1656144.959 | 1918620.432 | 1889146.572 | 1820476.299 | 1541929.953 | 1195044.393 | 1274638.544 | 1872348.142 | 1053369.738 | 148957.552  | 1338089.252  | 33461.6636  | 464216.7138 | 159510.2229  | 119941.936  | 314300.4418 | 636039.7365 | 136573.9305 | 144578.0452 | 528339.6888 | 1164796.923 | 305646.6459 | 1120833.047 | 61276.81    | 109314.1909 | 1354663.903 | 1112392.361 |            |
| C4HE3N80P3S     | 28795.4905  | 46023.314   | 208928.3072 | 241160.3125 | 159562.1832 | 19396.6383  | 268318.9664 | 233450.3268 | 24252.21436 | 26180.4769  | 187281.6963  | 44971.6744  | 25714.2522  | 1480.82188   | 326233.0829 | 20050.7528  | 14008.82188 | 139472.5572 | 139472.5572 | 17008.82188 | 139472.5572 | 139472.5572 | 139472.5572 | 139472.5572 | 139472.5572 | 139472.5572 | 139472.5572 |            |
| C4HE3N80P3S     | 303495.7753 | 16068.57635 | 314527.3821 | 13739.10992 | 202283.8079 | 217224.2991 | 297064.2727 | 237308.6239 | 64171.58436 | 298133.7176 | 22736.504    | 197197.8131 | 332627.4952 | 278568.1405  | 210505.078  | 14710.63266 | 56441.84884 | 215790.963  | 30671.9838  | 171204.4546 | 206327.3878 | 97774.02922 | 104614.6589 | 206260.8052 | 73995.95184 | 76307.60587 | 42719.62762 |            |
| C4HE3N20P6S     | 5996145.21  | 6226025.265 | 6294292.566 | 5024172.833 | 12774652.79 | 5148258.151 | 12438885.27 | 632828.392  | 506580.291  | 1157299.01  | 463445.624   | 10889747.49 | 3421331.772 | 5863361.849  | 2999544.65  | 3198019.973 | 4270971.609 | 45607.9986  | 5083050.293 | 538066.047  | 529132.017  | 3845788.244 | 397160.813  | 345660.614  | 347923.618  | 341968.702  | 5149663.712 |            |
| C4HE3N20P6S     | 4914711.005 | 5888841.664 | 4295150.394 | 5127955.296 | 6020283.736 | 4376444.455 | 5069943.468 | 5981948.787 | 5255046.286 | 5338403.719 | 5038123.224  | 10405934.62 | 2259658.743 | 4829754.742  | 4024231.792 | 2974143.793 | 4605073.999 | 5102206.918 | 5661125.662 | 5214604.555 | 4639129.432 | 2583572.915 | 347667.747  | 1621796.363 | 1708848.949 | 1700849.616 |             |            |
| C4HE3N2017P2    | 19027.6332  | 1656139.635 | 252410.0245 | 172045.9692 | 201544.76   | 162459.936  | 139018.902  | 197684.4974 | 14766.3895  | 20969.6087  | 121279.0035  | 129198.0634 | 161961.5083 | 111986.2983  | 127797.721  | 116466.5107 | 49945.3695  | 106850.193  | 102339.5367 | 254546.1523 | 204083.9999 | 178854.5283 | 1179608.059 | 100322.9217 | 208401.9288 |             |             |            |

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|-----------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| C5H12CN2O4P3S   | 2197323.709 | 2493999.744 | 2049402.499  | 2007068.538 | 2343325.935 | 1980329.691 | 1964094.729  | 2228893.74  | 2089027.068 | 2128883.821  | 2021614.269 | 2003561.38   | 2356042.752  | 2245411.694 | 2521897.967 | 2042395.979 | 1987897.84  | 2362422.262 | 2173476.987 | 1986735.185  |               | 2007292.43  | 2053213.328  | 2190177.929 | 1943967.189 | 1938136.627 | 2006172.186 | 1972862.607 |
| C5H10N0P5       | 3100852.411 | 3723232.099 | 2764927.471  | 4799002.593 | 3933202.61  | 2900244.436 | 2545900.677  | 2101503.65  | 2948786.909 | 2648022.564  | 2649916.645 | 1658492.527  | 2345753.787  | 2064058.215 | 5455197.776 | 3400225.738 | 3325870.946 | 5161224.594 | 3728226.55  | 3607006.714  | 3503102.675   | 3811645.689 | 5979417.208  | 4566961.74  | 4998383.755 | 4931292.506 | 4235757.952 |             |
| C5H10N2O2       | 50376.79765 | 70566.42395 | 53896.10865  | 58864.94985 | 69103.3726  | 31274.70501 | 62682.29292  | 48344.09444 | 213859.5257 | 39684.91895  | 63739.09626 | 64002.24154  | 41327.23204  | 3812975.078 | 44063.67225 | 831100.5562 | 48845.43057 | 57369.26277 | 69615.53708 | 45477.71678  | 89521.71988   | 43119.50931 | 41516.35214  | 59407.59490 | 45293.67917 | 79871.67256 | 46761.4661  |             |
| C5H10N2O3       | 1395421.118 | 138403831   |              | 12755222.04 | 128988794.9 | 133827276   | 120468074.8  | 118886503.6 | 133113362.9 | 137998721.9  | 124212298.2 | 102980621.6  | 106325204    | 102201548.2 | 156110566.9 | 84625826.73 | 82226918.3  | 51774960.6  | 411528885   | 455119494    | 130374570.3   | 49554530.21 | 64408302.06  | 80741491.95 | 113646064.3 | 66575292.66 | 63262705.25 |             |
| C5H10N2O7P2S2   | 398004.6189 | 214005.3974 | 414580.3458  | 47124.2375  | 501170.2572 | 396468.2539 | 473997.0463  | 190981.2831 | 470433.1394 | 399591.9239  | 476537.1298 | 291474.4279  | 425116.9213  | 800131.7288 | 434589.8479 | 487621.9101 | 461580.4299 | 472543.9486 | 379837.0742 | 395359.7547  | 472543.9486   | 395359.7547 | 472543.9486  | 395359.7547 | 472543.9486 | 395359.7547 | 472543.9486 | 395359.7547 |
| C5H10N4O4       | 6796807.089 | 9130645.298 | 6022391.599  | 5439266.774 | 6356360.356 | 4560071.797 | 5894221.791  | 5647204.184 | 6142267.1   | 5051194.83   | 4216347.054 | 5047934.722  | 6635887.824  | 3872147.671 | 9295927.468 | 6445089.605 | 3616415.31  | 9369578.542 | 610290.188  | 704657.305   | 670830.31     | 10253754.8  | 1440860.56   | 748345.437  | 7038155.262 | 1957142.679 | 2045743.973 |             |
| C5H10N6O4       | 18203209.6  | 23939325.78 | 18929097.78  | 20724693    | 16227209.55 | 17809997.76 | 18404142.14  | 16975530.9  | 21323237.01 | 22253517.81  | 20389827.32 | 13083774.22  | 8984937.539  | 9454223.972 | 10697967.88 | 14985623.57 | 13467114.15 | 15271568.18 | 21310873.21 | 21731396.38  | 18072540.98   | 12685524.53 | 17994447.37  | 13011702.16 | 1928592.53  | 2501972.78  | 19537555.89 |             |
| C5H10N9P        | 35737.80035 | 40172.52277 | 36384.76802  | 87617.18968 | 33492.13305 | 48963.48282 | 30040.33882  | 67894.87178 | 65666.73231 | 22947.58108  | 65921.37079 | 64189.04487  | 348950.1407  | 170066.3235 | 87353.10702 | 30955.49745 | 34218.32507 | 109146.2276 | 69988.25001 | 98369.42082  | 113920.918    | 55901.97612 | 66857.06474  | 3614280947  | 175425.2556 | 48728.58644 | 28769.96969 |             |
| C5H10N9P        | 20253.27969 | 25541.41395 | 21801.11195  | 30666.84813 | 29939.43384 | 18544.72257 | 33109.28738  | 47574.73876 | 49756.52474 | 48654.89874  | 47661.46352 | 47324.02339  | 147582.1983  | 30634.28885 | 47064.64595 | 37890.5408  | 21585.5946  | 373259.6431 | 70864.37124 | 73727.42165  | 68916.88902   | 73567.95958 | 60747.93561  | 15073.06874 | 49835.52907 | 57750.55765 | 47947.16743 |             |
| C5H10I10        | 213596.7169 | 113982.0768 | 187518.9711  | 169839.3655 | 216276.6668 | 200158.7818 | 226919.1357  | 184094.7246 | 191531.9842 | 220487.6538  | 185833.4144 | 277483.3835  | 92250.85269  | 350389.3017 | 151067.4175 | 239800.4122 | 274746.3902 | 207557.673  | 233019.295  | 336647.8049  | 21481.3295    | 90989.6386  | 142587.8843  | 216118.3766 | 38438.54985 | 186689.2034 | 195333.671  |             |
| C5H11CN4O14P2S2 | 9735870.282 | 8441379.094 | 8011230.409  | 7643929.799 | 5026583.273 | 4767661.386 | 6729734.206  | 4479164.509 | 7180797.375 | 7417759.596  | 8633276.082 | 7796250.462  | 312955.443   | 3125157.609 | 2846979.365 | 8389146.463 | 7909067.947 | 7612224.289 | 8067713.571 | 7015327.8    | 8289459.654   | 6018942.082 | 3253119.942  | 6041299.967 | 7279220.271 | 8989642.806 | 8366538.999 |             |
| C5H11C2N5O5     | 117047.6188 | 55796.2257  | 79952.50106  | 110809.9727 | 100440.0475 | 87251.56211 | 76813.10408  | 95561.64334 | 127658.7878 | 98675.6231   | 82809.18918 | 145016.653   | 158682.8315  | 90504.49776 | 267297.5295 | 292630.8876 | 261989.0568 | 193683.1093 | 82246.98143 | 119990.4657  | 82494.31545   | 86932.13044 | 155046.316   | 147233.5312 | 108872.6657 | 114377.1945 | 125875.9731 |             |
| C5H11C2N6P3     | 646396.377  | 6641260.471 | 6295778.815  | 6665651.618 | 6355247.206 | 5571505.195 | 6898535.306  | 7240700.9   | 6139575.462 | 1271339.78   | 2075222.872 | 10793597.82  | 13191353.36  | 12625000.28 | 7565681.201 | 7620875.325 | 66341.16134 | 7264367.087 | 7817190.543 | 7882988.722  | 6427909.938   | 7612829.358 | 10263328.81  | 6898018.431 | 7701484.612 | 7818510.179 | 679883.576  |             |
| C5H11C3N2O8     | 817391.8982 | 889921.6086 | 712149.4798  | 701349.5068 | 743422.9201 | 783012.2744 | 757208.2219  | 844948.9962 | 689223.1981 | 817243.1558  | 816818.6593 | 1132552.791  | 1278904.862  | 1064387.859 | 660029.4758 | 699516.921  | 692395.1053 | 729188.5118 | 819441.5352 | 631948.4915  | 731484.3424   | 528062.1321 | 855441.916   | 664350.926  | 813528.006  | 800091.1803 | 772477.2516 |             |
| C5H11C4N4O3P5   | 404990.2499 | 523631.385  | 369717.436   | 321805.0386 | 405038.474  | 442321.3217 | 436152.1962  | 430446.0171 | 397789.007  | 458850.046   | 402873.1504 | 428289.2369  | 464388.4998  | 506915.3521 | 651438.9187 | 30097.6572  | 274188.645  | 619188.6129 | 399747.9563 | 508496.0337  | 387980.1162   | 238186.6065 | 597011.6514  | 280479.088  | 459499.5941 | 225708.4599 | 166547.5416 |             |
| C5H11C6N6O5P5S  | 255623.9053 | 347049.3905 | 275449.7505  | 264016.2729 | 229871.8646 | 262784.1732 | 235438.8409  | 305212.7385 | 261190.0919 | 312366.8331  | 310844.8683 | 642445.9258  | 914305.398   | 356967.2658 | 296828.2032 | 260390.4365 | 299083.8881 | 387517.2167 | 278835.1138 | 296806.7174  | 289813.9818   | 29912.1297  | 322119.0082  | 331784.318  | 264887.8064 | 286772.6364 |             |             |
| C5H11N2O2S      | 28528364.72 | 24689598.97 | 36017265.26  | 26987494.88 | 28231428.71 | 24526588.85 | 208810220.33 | 20744230.04 | 2705495.351 | 242891.24.98 | 2679832.761 | 22278961.45  | 24415869.64  | 18218910.79 | 33923203.4  | 24151078.11 | 22694666.89 | 28734763.84 | 4189682.3   | 40363849.21  | 30827920.31   | 109107189   | 1180031.934  | 32626265.67 | 32876962.19 | 368959.437  | 3286944.53  |             |
| C5H11N2O2S      | 34725051.13 | 27670811.15 | 29486954.97  | 850661.31   | 313891.2062 | 27132932.43 | 2081502.951  | 24507646.14 | 34858665.34 | 29998548.32  | 2698272.76  | 29856983.4   | 23224955.22  | 49315607.15 | 36518222.98 | 24866039.45 | 40482502.66 | 60136887.09 | 4079145.11  | 117071128.7  | 17911568.2    | 91664457.15 | 4097894.84   | 46119843.37 | 4241006.239 | 16168.82945 |             |             |
| C5H11N3O3S      | 1146845.257 | 749078.346  | 1483410.359  | 353508.6557 | 1430002.743 | 113792.083  | 1355330.287  | 1412904.51  | 1464428.747 | 991734.7818  | 562409.4656 | 881180.6169  | 142887.177   | 1327251.1   | 1979574.11  | 200606.159  | 1765432.2   | 1916705.58  | 126024.992  | 2423918.827  | 1185438.301   | 6809435.169 | 8459528.447  | 536873.554  | 1480446.875 | 2645371.93  | 2571078.33  |             |
| C5H11N3O3S      | 37835.20265 | 100706.4201 | 42954.57145  | 106539.0203 | 76318.518   | 43689.4419  | 19697.56305  | 360524.7875 | 299359.2395 | 224630.8581  | 112587.7378 | 47486.455    | 407492.065   | 266640.104  | 116480.7452 | 85112.8866  | 112587.7378 | 454175.9096 | 34990.97067 | 123089.04521 | 432074.9562   | 616268.934  | 415374.6054  | 18004.6383  | 271405.9021 | 61168.82945 |             |             |
| C5H11N3O3S      | 161807.0462 | 189526.5716 | 176423.4146  | 95566.24219 | 90976.675   | 191656.928  | 148922.5983  | 470425.1384 | 752031.2057 | 477306.0392  | 105747.5033 | 1356024.8706 | 723311.2617  | 511725.1207 | 171435.3446 | 133003.2974 | 119795.2229 | 241798.066  | 188414.7878 | 266990.3273  | 139202.6448   | 164511.6658 | 651467.473   | 250492.427  | 199480.287  | 166411.7264 | 144877.9394 |             |
| C5H11N4O4P      | 1479828.46  | 889627.848  | 468582.2297  | 93262.852   | 1023506.425 | 62722.7136  | 73222.7136   | 32222.7136  | 1059033.626 | 82603.626    | 17700.9262  | 4418.56168   | 765009.2     | 7923110.267 | 838285.1028 | 848962.4232 | 982094.7603 | 793551.2074 | 936895.8317 | 987429.6231  | 936895.8317   | 953242.7192 | 892672.7192  | 932422.918  | 196007.847  | 935902.7689 |             |             |
| C5H11N8O4P      | 492747.1128 | 16461.1681  | 865866.2694  | 571198.3321 | 641817.1279 | 611307.764  | 680003.3794  | 547177.8704 | 758052.594  | 72947.394    | 67328.8491  | 86336.434    | 928957.9658  | 930851.2362 | 708692.574  | 793535.4249 | 67312.8742  | 841796.6186 | 880276.6666 | 730816.1257  | 783570.1586   | 1164258.255 | 744550.969   | 876248.9371 | 778457.1003 | 746408.9954 | 918882.8862 |             |
| C5H11N8O4P      | 452360.0261 | 58297.535   | 39787.5546   | 39788.4778  | 372219.4427 | 157048.6776 | 62790.5676   | 406862.3697 | 44746.6886  | 20928.4511   | 547988.2297 | 84636.9608   | 60851.9148   | 26361.5118  | 18471.518   | 32725.4023  | 347615.0358 | 55225.8004  | 398974.2131 | 86857.53547  | 55236.00249   | 38984.2131  | 86857.53547  | 55236.00249 | 38984.2131  | 86857.53547 | 55236.00249 |             |
| C5H11O11P3S5    | 30127.2436  | 27611.807   | 229329.9216  | 249859.4154 | 274444.2015 | 241033.3574 | 267922.1199  | 310046.9995 | 343927.102  | 272320.0348  | 287791.1988 | 361431.0732  | 362002.4161  | 398226.0694 | 530213.5364 | 244255.1731 | 179632.6491 | 480522.0842 | 291546.2381 | 362653.3294  | 349617.1476   | 188341.3492 | 3229290.1833 | 192854.0998 | 29339.8403  | 161608.4154 | 167346.8601 |             |
| C5H11O7P        | 235818.724  | 2491565.324 | 246184.148   | 228263.973  | 2241053.662 | 214932.402  | 2174041.492  | 2592985.932 | 1956179.583 | 226034.068   | 2142081.082 | 284863.391   | 2709352.724  | 2428051.536 | 1943903.095 | 2461561.49  | 2429950.353 | 219402.182  | 2203684.153 | 2093575.861  | 1366981.177   | 2052874.218 | 1894745.975  | 2079508.066 | 2406781.919 | 234411.173  |             |             |
| C5H12B2N6O3S2   | 51103.4437  | 78085.06814 | 61068.6909   | 67299.59115 | 78765.38375 | 67056.35209 | 65591.25397  | 9073.7966   | 6416.09402  | 73263.8031   | 73263.8031  | 642445.9258  | 914305.398   | 356967.2658 | 296828.2032 | 260390.4365 | 299083.8881 | 387517.2167 | 278835.1138 | 296806.7174  | 289813.9818   | 29912.1297  | 322119.0082  | 331784.318  | 264887.8064 | 286772.6364 |             |             |
| C5H12CN6O5P     | 63094.33772 | 49076.9263  | 615154.65984 | 391818.4149 | 32164.69442 | 24729.36768 | 34241.36131  | 31512.29878 | 34907.55544 | 24676.5192   | 47668.1803  | 67075.30221  | 599991.38062 | 4927.0489   | 168755.5529 | 166315.6464 | 425181.8223 | 25297.267   | 38889.14813 | 31455.79967  | 27761.38806</ |             |              |             |             |             |             |             |

|                  |             |              |             |             |             |             |             |             |             |             |              |             |             |             |             |             |             |             |             |              |             |             |             |             |             |             |             |
|------------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| C5H4C12D8S       | 998698.5864 | 369401.3373  | 854111.9353 | 733980.5759 | 664996.4314 | 524369.4911 | 615747.7534 | 472422.5424 | 716428.1991 | 685746.0143 | 618710.4027  | 412267.428  | 460576.282  | 922995.4208 | 754473.9102 | 667911.2341 | 660177.1306 | 672348.5473 | 850177.7296 | 841300.4648  | 590526.1645 | 449574.088  | 676123.0794 | 633128.5731 | 252450.6769 | 325929.6163 | 332507.8305 |
| C5H4N2O13P2      | 44647445.19 | 45936493.73  | 47473831.59 | 44564046.58 | 46428940.35 | 47215439.96 | 44384250.48 | 44194688.63 | 45508792.25 | 44704106.61 | 44942112.64  | 46425610.59 | 44505627.68 | 45262371.76 | 42995232.41 | 45923222.79 | 45096089.46 | 42917574.82 | 46503950.3  | 46567620.62  | 43930524.5  | 4352309.38  | 44638971.52 | 44573599.69 | 46391111.87 | 45680510.14 | 43646809.38 |
| C5H4N2O5         | 692227.3983 | 432763.7863  | 658770.9085 | 856238.373  | 1235481.799 | 1226204.523 | 1209805.05  | 810261.5104 | 1313281.097 | 1202049.327 | 828251.4203  | 953332.7386 | 450739.8996 | 616615.3099 | 549190.791  | 682784.8268 | 899581.5185 | 782784.3942 | 826992.7525 | 898570.3792  | 840839.3439 | 590076.0539 | 835526.3664 | 1419085.996 | 745716.693  | 1221985.535 | 109762.761  |
| C5H4N4O          | 93094189.58 | 90205876.59  | 68769750.47 | 77817645.62 | 70464363.73 | 61773914.47 | 68965776.59 | 69356299.49 | 82680050.41 | 88087135.84 | 120117365.1  | 53902927.99 | 56718196.06 | 29593819.26 | 216219367.6 | 73519694.82 | 6415757.54  | 187314526.6 | 9041738.54  | 131080568.8  | 109301469   | 63147076.04 | 93244793.71 | 124602681.9 | 104234121.8 | 36623392.67 | 35596466.82 |
| C5H4N4O2         | 10993947.4  | 80705477.069 | 14060273.4  | 10875732.29 | 7996351.155 | 75352247.99 | 33908944.63 | 9098944.92  | 990922.665  | 11131759.5  | 9401261.18   | 900722.665  | 12608566.37 | 12627616.7  | 62127616.7  | 62127616.7  | 62127616.7  | 62127616.7  | 62127616.7  | 62127616.7   | 62127616.7  | 62127616.7  | 62127616.7  | 62127616.7  | 62127616.7  | 62127616.7  | 62127616.7  |
| C5H4N4O3         | 22541914.1  | 167809191.6  | 237811954.9 | 253490561.8 | 239605816.3 | 270953239.8 | 353556624.2 | 199075850.5 | 29994475.3  | 237503016   | 25159587     | 31906692.7  | 12685272.1  | 318477931.4 | 152243820.6 | 18836513.8  | 292167873.4 | 246871627.5 | 226675436.1 | 305162006.7  | 279081601.4 | 134243882   | 631710416.2 | 313383003.4 | 68739303.17 | 204242832.2 | 293599210.3 |
| C5H4N4O11P2      | 22014068.7  | 23250528.97  | 17478027.09 | 24999634.13 | 23367360.5  | 22892088.02 | 23035787.73 | 24422382.49 | 2185431.49  | 22710454.82 | 20944085.72  | 19288641.4  | 19088351.64 | 21124967.99 | 19902596.37 | 2062746.07  | 17186212.57 | 2020327.02  | 20206496.94 | 19805219.33  | 21828091.45 | 22993244.86 | 19315497.71 | 1993987.13  | 12583494.13 | 21202092.49 | 22238898.94 |
| C5H5C1N5O3P3S    | 508458.2327 | 700220.6789  | 541097.0926 | 536436.8161 | 546072.3959 | 64750.7894  | 666027.7021 | 668739.4763 | 490418.947  | 576208.0523 | 607987.0084  | 727849.4326 | 1024840.873 | 793537.0157 | 426014.0746 | 697292.9105 | 817391.4823 | 430989.6079 | 531596.0744 | 589059.6375  | 589235.8428 | 261399.3682 | 438006.8176 | 497389.8639 | 565884.9203 | 78894.90358 | 445519.663  |
| C5H5C1N2O12P2    | 149200.8893 | 103305.7937  | 122505.9359 | 131399.95   | 109905.8532 | 62345.06848 | 103889.3988 | 124214.9034 | 125866.6669 | 95607.26933 | 99133.56873  | 264557.0733 | 298890.9888 | 311428.681  | 533459.7028 | 400725.2267 | 378580.1205 | 419551.483  | 85317.49268 | 315079.3456  | 253270.0519 | 664710.7917 | 1036211.789 | 294683.4613 | 371260.6985 | 20490.9903  | 167331.8721 |
| C5H5C1N2O3O6S    | 947448.3084 | 1131614.987  | 1181683.472 | 974763.4702 | 957974.0609 | 1178437.234 | 1167590.972 | 1186541.528 | 922784.193  | 1147750.032 | 890218.4414  | 1138371.277 | 1671559.825 | 1225569.465 | 764019.6336 | 955684.6854 | 1175182.009 | 840658.2133 | 1199898.953 | 103042.671   | 1065708.026 | 577314.1235 | 789393.7579 | 963038.9167 | 937132.3917 | 970559.3063 | 968643.6764 |
| C5H5N2O10P5S     | 2318428.975 | 2768834.568  | 2611878.817 | 2686199.84  | 2986476.939 | 3004769.844 | 2826667.724 | 2963233.889 | 2612813.026 | 2664460.85  | 2813081.006  | 2276235.237 | 2275056.543 | 2459589.09  | 2081796.785 | 2464364.069 | 2385997.191 | 2125866.187 | 2402691.969 | 2117700.006  | 2466041.949 | 2600112.604 | 2528272.594 | 223456.858  | 2257167.186 | 2326709.048 | 2483759.353 |
| C5H5N3O          | 68370.20112 | 28156.36773  | 246301.0836 | 117163.3754 | 136301.0532 | 175623.5548 | 158740.431  | 101241.3234 | 159714.8805 | 127452.1225 | 43065.34228  | 59076.91324 | 441552.8473 | 187996.0753 | 107823.6019 | 90641.98885 | 309499.0567 | 99568.83989 | 447936.8386 | 185468.2925  | 196043.8252 | 153584.2176 | 77238.13789 | 134769.6136 | 107071.225  | 109015.7269 | 82369.52306 |
| C5H5N3O2         | 97399.60845 | 1193169.733  | 129707.804  | 307725.9812 | 229530.9317 | 218141.3002 | 331230.8425 | 1485127.106 | 172148.5092 | 212931.3307 | 472487.2303  | 212151.442  | 266240.5966 | 409669.0988 | 470062.5366 | 1378202.725 | 352098.0784 | 941691.7487 | 785988.3699 | 439398.2932  | 533888.5054 | 122955.7792 | 147257.7904 | 251474.2195 | 682503.1542 | 91472.9597  | 296460.9547 |
| C5H5N3O5P2       | 345261.9933 | 499075.3235  | 356555.1237 | 327628.8766 | 292072.0259 | 299403.6939 | 554484.3051 | 401622.3886 | 371056.0896 | 215653.9359 | 31914.7214   | 555616.6065 | 623611.5679 | 468923.9261 | 595171.4482 | 409137.7923 | 370741.0828 | 453670.884  | 804831.5117 | 433629.5629  | 368524.8512 | 622319.3579 | 842588.2585 | 453897.8457 | 398167.1426 | 579163.0902 | 543775.6299 |
| C5H5N5O4         | 4661023.997 | 4889043.559  | 4785049.886 | 5166091.483 | 5249308.189 | 3831564.491 | 443666.195  | 453324.576  | 4591061.819 | 489169.558  | 410340.229   | 4751118.637 | 5019214.458 | 4622145.239 | 8124117.336 | 5107048.854 | 538826.528  | 6955982.626 | 5993074.766 | 5845605.39   | 5489164.363 | 4249377.908 | 5283146.936 | 456364.632  | 498009.31   | 3300251.57  | 370630.800  |
| C5H5N5O17        | 71162.6447  | 395885.5584  | 625234.0934 | 669382.0563 | 690112.4402 | 563799.8187 | 841580.2922 | 540417.4628 | 629207.2078 | 688586.2416 | 510795.1556  | 1035086.304 | 287505.8389 | 1176294.294 | 327752.3678 | 417342.5948 | 958169.9039 | 664818.717  | 705987.468  | 765332.6623  | 775457.392  | 242614.8742 | 355480.4058 | 27414.3028  | 52567.13816 | 607526.0079 | 675173.5938 |
| C5H5N6O          | 16728.64354 | 11676.11271  | 15229.90774 | 14328.03795 | 21722.85563 | 13184.28223 | 15061.0021  | 14557.48044 | 26680.77937 | 12894.80251 | 13959.77669  | 13785.40553 | 12372.63072 | 23660.67163 | 98568.04566 | 38903.016   | 57666.55056 | 87710.24734 | 13254.17394 | 38926.89056  | 33660.57515 | 98488.5938  | 84794.507   | 6826.14308  | 74754.37337 | 3429.42506  | 41815.84351 |
| C5H6BrC12N2O2P2S | 1671819.58  | 13455258.97  | 1558104.421 | 1742806.05  | 1362568.612 | 1357973.257 | 228570.916  | 1444440.99  | 175857.682  | 1875987.638 | 37486.0755   | 1444440.99  | 2069475.662 | 2120771.966 | 212953.286  | 1545790.66  | 145088.225  | 201948.919  | 1772483.508 | 1714150.412  | 2399314.13  | 148581.338  | 1541842.217 | 168873.765  | 181173.5575 | 18163.7597  | 18163.7597  |
| C5H6C2O2P2       | 379210.6133 | 393298.2085  | 279044.7679 | 286567.4064 | 287261.0622 | 169815.625  | 263640.4778 | 226541.2126 | 228126.9124 | 204379.7378 | 247956.3217  | 325855.3508 | 184520.5402 | 54449.8647  | 226691.7957 | 251999.7078 | 313335.69   | 313286.051  | 401906.6301 | 393426.7031  | 250114.597  | 207432.9703 | 303202.2774 | 23739.9456  | 78861.24017 | 349664.5227 | 269375.0464 |
| C5H6N3P          | 179455.827  | 162497.2333  | 255908.4685 | 863914.7859 | 341977.1662 | 140455.2812 | 253875.1561 | 44451.0341  | 73464.86965 | 19387.4668  | 92199.6805   | 84459.79889 | 167740.7341 | 112986.9498 | 270308.2282 | 99824.0244  | 170238.0456 | 162078.4152 | 114159.6716 | 94049.2431   | 79051.89066 | 170266.1757 | 216959.2223 | 200341.5312 | 53169.21376 | 56663.62533 | 84206.52097 |
| C5H6N3P3         | 243805.6486 | 442648.7908  | 191189.1018 | 713204.9995 | 1471986.707 | 329288.7969 | 142131.1321 | 144629.5252 | 66143.07988 | 99275.7326  | 130346.189   | 37885.5518  | 38409.2883  | 87479.8893  | 84384.3734  | 54642.83138 | 168416.889  | 102399.8938 | 31378.81552 | 64896.85617  | 52511.05762 | 163004.1887 | 206427.7121 | 21863.9504  | 68735.24156 | 133045.8278 | 75017.98944 |
| C5H6N4O          | 40935.5442  | 29737.33657  | 37469.3401  | 52356.97427 | 21385.43769 | 35739.15423 | 37024.61215 | 42305.58798 | 38483.71853 | 33904.6004  | 34493.21805  | 44994.21804 | 16029.28164 | 74490.8159  | 84074.76101 | 96891.25795 | 104590.2427 | 90324.87597 | 20828.93147 | 27377.42888  | 97995.3404  | 73178.8418  | 55053.15545 | 7225.2187   | 6110.75606  | 61325.10424 |             |
| C5H6N4O2S        | 841214.2083 | 1163549.997  | 178364.6198 | 1696974.098 | 1447214.245 | 980464.5768 | 962259.2079 | 2011024.001 | 767594.291  | 2089924.590 | 19733604.006 | 1088722.101 | 1421688.095 | 470781.0525 | 1502995.449 | 742745.562  | 99242.91632 | 941258.308  | 133384.722  | 1145454.559  | 690375.2429 | 1460397.958 | 1498834.464 | 1951623.027 | 1389950.606 | 231270.565  | 658844.0281 |
| C5H6N4O3         | 191215.3616 | 239061.3016  | 12795.6543  | 20005.9005  | 205888.4273 | 194427.2909 | 177235.3964 | 172977.7015 | 1647401.21  | 93179.6086  | 198043.7964  | 138043.7964 | 133847.7551 | 1647401.21  | 127263.516  | 1908429.501 | 2057334.384 | 182344.1663 | 116585.566  | 159477.6519  | 4322092.464 | 10575214.14 | 590694.047  | 154094.473  | 220679.578  | 16886.8609  |             |
| C5H6N4           | 84260.91654 | 116889.8245  | 61945.13412 | 241348.471  | 138649.8892 | 89576.42107 | 63302.73613 | 69021.4529  | 19916.497   | 237993.8812 | 238355.6397  | 122980.4178 | 358511.9744 | 14943.5638  | 140073.1884 | 90849.8986  | 176860.841  | 6297.76651  | 104829.2874 | 110864.2146  | 512905.3313 | 133887.6422 | 163827.8465 | 275396.382  | 291920.39   | 1047803.305 | 161705.6327 |
| C5H6N4O2         | 9304189.07  | 80430752.9   | 678594.8133 | 77817843.64 | 70446440.2  | 61774061.41 | 68965895.43 | 6935641.49  | 82680432.22 | 88087433.3  | 12007852.9   | 53903202.41 | 56718480.32 | 6227304.27  | 21621983.29 | 73519694.82 | 6414573.82  | 187133.0519 | 901747.293  | 1331089924.9 | 109301719.3 | 63147360.95 | 93525100.12 | 1246031.524 | 36623508.67 | 35598.1586  |             |
| C5H6N6O4P2       | 200517.1019 | 15827.3409   | 27435.84143 | 304935.5968 | 47271.59542 | 192938.819  | 250118.8674 | 13989.9994  | 74889.4433  | 68779.4193  | 345641.312   | 1035086.304 | 287505.8389 | 1176294.294 | 327752.3678 | 417342.5948 | 958169.9039 | 664818.717  | 705987.468  | 765332.6623  | 775457.392  | 242614.8742 | 355480.4058 | 27414.3028  | 52567.13816 | 607526.0079 | 675173.5938 |
| C5H6N9O2P2S      | 177271.9587 | 1537313.842  | 104539.7069 | 103200.8851 | 184493.3826 | 93760.29352 | 289598.7278 | 535902.3446 | 199000.631  | 75079.62882 | 65089.14364  | 126955.668  | 166709.645  | 578188.1494 | 1716814.457 | 138118.2301 | 84845.83806 | 125930.288  | 70825.19357 | 70981.43963  | 84237.85055 | 210612.1525 | 300512.3286 | 67663.21977 | 247094.3932 | 94215.45134 | 195844.344  |
| C5H7C1N6O6       |             |              |             |             |             |             |             |             |             |             |              |             |             |             |             |             |             |             |             |              |             |             |             |             |             |             |             |

|                 |              |             |             |             |             |             |             |             |             |             |             |             |             |             |              |             |             |              |             |             |             |             |             |             |             |             |             |            |
|-----------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| C6H1I002        | 442535.2244  | 725216.5763 | 486581.6824 | 532191.3613 | 620988.2981 | 942346.8856 | 549517.6871 | 1081597.311 | 598625.0636 | 923963.2142 | 954305.8604 | 951512.9967 | 730908.4761 | 1218688.24  | 106166.3789  | 1379600.23  | 432516.3466 | 417311.0389  | 351589.5457 | 686410.8881 | 1104745.745 | 767679.9747 | 173536.0219 | 742907.9324 | 629185.5501 | 550636.944  | 1181538.299 |            |
| C6H1I008        | 423277.066   | 478595.118  | 470519.9124 | 473272.0247 | 403021.5695 | 698822.1356 | 498821.4642 | 546724.7255 | 521674.1292 | 529767.8893 | 639094.2639 | 591572.7201 | 593970.1707 | 465577.434  | 388254.5334  | 543146.2792 | 544323.7074 | 492968.0789  | 594839.482  | 447304.699  | 556375.5238 | 293378.0797 | 523166.1505 | 573366.5215 | 595816.4371 | 579636.0801 |             |            |
| C6H1I0092       | 367232.418   | 205818.7361 | 1891598.394 | 271216.2313 | 274978.76   | 478944.5588 | 1230502.825 | 248225.7692 | 282290.5871 | 954625.4836 | 141677.5543 | 371508.2484 | 452579.042  | 486952.3041 | 153268.5754  | 156773.0805 | 117882.9962 | 160335.8284  | 645916.3934 | 817110.8521 | 585322.829  | 1681541.369 | 2745238.673 | 115232.5715 | 328341.8437 | 247765.8483 | 142598.1494 |            |
| C6H11C1N02P5    | 341791.7897  | 309892.1518 | 110771.6114 | 476054.896  | 294633.8384 | 225531.4647 | 276809.7448 | 323673.7258 | 393392.586  | 329008.135  | 371985.729  | 381230.1631 | 491960.116  | 494336.5106 | 992298.5177  | 811606.421  | 742880.6792 | 825117.7875  | 236691.333  | 665908.477  | 523441.1075 | 1167164.38  | 1639164.512 | 715408.4995 | 806081.7261 | 472841.5495 | 441993.3125 |            |
| C6H11C1O7       | 122317.3145  | 106487.7513 | 100820.2468 | 123584.96   | 109687.7411 | 98316.7148  | 130855.1161 | 187352.5784 | 104250.8261 | 136585.7978 | 161757.8753 | 196093.7643 | 226235.9613 | 397569.9273 | 416259.9613  | 364497.7361 | 442313.6188 | 588286.9511  | 128183.7395 | 162886.9511 | 1369256.951 | 163781.3878 | 159112.4637 | 146267.8499 | 108685.7667 |             |             |            |
| C6H11I1N02      | 34791546.68  | 21392240.91 | 36999281.88 | 14843096.81 | 30201036.4  | 21320013.62 | 31657089.38 | 37860594.09 | 512406.111  | 20838485.43 | 29858275.48 | 12552972.33 | 2793241.171 | 1871671.82  | 49007651.66  | 35613660.94 | 16518234.74 | 59670103.12  | 16273850.8  | 70894657.6  | 62016035.92 | 29552680.86 | 41307853.31 | 24202484.45 | 15248056.39 | 16888451.05 | 17265139.59 |            |
| C6H11I1N03      | 2456844.584  | 1552095.375 | 1911444.257 | 218834.72   | 1918873.825 | 1271580.492 | 1775509.19  | 2368426.087 | 1321070.077 | 2335588.669 | 1940924.154 | 2218752.50  | 2343267.682 | 2225442.172 | 2122879.318  | 3633172.37  | 1616548.74  | 2232158.762  | 1680275.924 | 3571122.424 | 35771185.03 | 1174617.078 | 4054968.931 | 3147067.43  | 1951298.014 | 5207962.923 | 571891.34   |            |
| C6H11I1N2P      | 686353.6386  | 77316.27318 | 72056.6896  | 599741.189  | 581415.2103 | 277970.1112 | 162122.088  | 89375.85047 | 48076.3715  | 546952.5739 | 426249.7968 | 37342.9679  | 259919.0325 | 228168.5695 | 191002.6607  | 393131.6734 | 47703.18957 | 220703.5702  | 605344.6929 | 753715.2026 | 39643.51781 | 438515.1594 | 549663.3832 | 276116.6944 | 42430.873   | 349727.4037 | 43336.34206 |            |
| C6H11I1N3O2     | 9185073.12   | 128366070   | 99279506.77 | 113323557.2 | 113993761.7 | 146081942.5 | 93095040.56 | 109600238.7 | 131812705.7 | 133094594.6 | 112758866.7 | 60205030.6  | 56799837.41 | 60336594.41 | 76144189.81  | 72190558.12 | 66974759    | 81561708.04  | 127055122.7 | 110738973.8 | 98804538.19 | 114490898.7 | 159715994.2 | 81582448.67 | 107373753.9 | 126755629.2 | 123201440.7 |            |
| C6H11I1N4P5     | 1468392.999  | 1484835.465 | 1580172.62  | 1298430.122 | 733161.5679 | 730723.209  | 1060949.491 | 1259698.685 | 1394104.192 | 1744270.731 | 1731896.24  | 1830720.292 | 1871654.723 | 1766002.283 | 2497669.562  | 1493748.615 | 1298023.226 | 2137609.366  | 1456244.704 | 2064897.231 | 1647529.24  | 1080517.293 | 1494907.176 | 1863100.627 | 1641311.196 | 1100745.448 | 1067425.891 |            |
| C6H11I1N4P5     | 1473053.568  | 1491227.53  | 1577787.097 | 1923500.175 | 970445.2139 | 729084.0669 | 1067016.953 | 1257538.975 | 1398254.676 | 1749480.592 | 1734897.04  | 1843304.72  | 1891331.758 | 1776735.76  | 2491814.34   | 1501502.664 | 1299518.82  | 2136428.842  | 1458451.57  | 2075191.597 | 1652130.667 | 1077514.422 | 1493748.615 | 1871399.582 | 1641361.25  | 1100444.925 | 1067139.614 |            |
| C6H12Bc1N4O2P2  | 103300.4955  | 65646.41897 | 87360.83839 | 74977.91055 | 81319.20316 | 75060.55822 | 53294.66416 | 89117.49932 | 39235.99015 | 115783.7215 | 74013.19878 | 119990.4592 | 83504.87903 | 105569.9103 | 93801.4928   | 82938.81509 | 67389.46332 | 117677.8454  | 96132.75931 | 107971.3161 | 88941.39533 | 44486.13734 | 66030.16563 | 120549.0268 | 87394.11442 | 93933.49299 | 85131.40434 |            |
| C6H12C1N02O5P3  | 259530.4987  | 160466.6013 | 232057.0436 | 323452.9339 | 179506.1115 | 246997.6308 | 94606.55861 | 211864.2991 | 271785.6122 | 270003.3201 | 146386.9034 | 210089.502  | 248451.6932 | 162234.6672 | 144622.1227  | 270522.4022 | 261897.7957 | 116493.6681  | 114928.1205 | 160493.9533 | 135569.4904 | 114578.489  | 168523.5068 | 79972.54788 | 88583.71704 | 280323.6316 | 359844.5653 |            |
| C6H12C1N02O6P3  | 15092.21681  | 13108.89901 | 8001.74163  | 16168.69349 | 15130.5725  | 14853.24986 | 14548.52411 | 14680.51573 | 12109.89182 | 12663.92879 | 14123.59192 | 13643.72395 | 15419.99346 | 38262.81478 | 54397.61587  | 66731.08639 | 49688.54967 | 19527.80407  | 54661.81725 | 43744.49145 | 20442.07171 | 80869.40233 | 46631.45697 | 102765.4368 | 59690.32432 | 135848.4059 | 116892.5452 |            |
| C6H12C1N4O11P3  | 135010.2848  | 215274.927  | 208599.7309 | 167889.5726 | 128883.6682 | 93255.303   | 136740.7621 | 145303.7085 | 208872.7786 | 244274.1839 | 241091.9832 | 71195.80653 | 289842.1705 | 190277.4257 | 32835.099    | 152899.3712 | 169772.2941 | 302246.7242  | 811526.301  | 282361.4359 | 263459.1002 | 80763.1499  | 182803.0188 | 219624.9325 | 218909.5062 | 121683.0186 | 126021.3359 |            |
| C6H12C1N02O6P5  | 3422912.554  | 4061853.755 | 3214390.339 | 3801061.916 | 3100005.559 | 3249728.172 | 3515869.587 | 3976686.752 | 3515689.19  | 3853838.772 | 3933922.73  | 1188888.784 | 7084081.147 | 6775840.104 | 3418151.523  | 3835058.248 | 325163.135  | 3175878.376  | 4716631.077 | 3707502.18  | 3139791.165 | 3814581.093 | 6088040.19  | 2497111.552 | 4047872.474 | 407209.246  | 3561235.118 |            |
| C6H12I1N2O      | 12980580.851 | 1525651.822 | 5270428.321 | 159095.763  | 914228.591  | 191080.915  | 1219041.514 | 1286100.92  | 1248283.515 | 979157.8966 | 1201111.57  | 85001.81492 | 978220.7147 | 96346.0439  | 2167335.026  | 3334885.39  | 3202671.899 | 3263783.901  | 655851.301  | 1551102.031 | 1312708.53  | 780856.9297 | 994075.6229 | 7529120.98  | 1666359.59  | 8042070.61  | 86144.2921  |            |
| C6H12I1N2O4     | 796193.3505  | 680572.8471 | 930439.8602 | 1402733.098 | 1942757.399 | 1224088.328 | 1560322.579 | 1469098.746 | 191498.755  | 104568.104  | 1462774.648 | 1359181.196 | 1774566.03  | 1841185.172 | 23135.0807   | 1134341.81  | 1057310.485 | 3392524.8377 | 31958.0399  | 1874412.614 | 1760296.936 | 752492.4512 | 930447.5227 | 776726.8275 | 559348.762  | 2994684.776 | 355374.006  |            |
| C6H12I1N2O4S2   | 7792686.711  | 6368169.094 | 688124.297  | 10276821.19 | 5868039.017 | 6877586.436 | 4874993.086 | 5611182.947 | 780084.341  | 6388712.121 | 6022532.23  | 654294.899  | 9931683.591 | 6070914.344 | 4951398.963  | 925528.697  | 802891.4332 | 416879.739   | 592702.816  | 5869895.731 | 4715175.595 | 4077470.354 | 5536110.725 | 3436638.353 | 3685741.46  | 1045183.18  | 1069530.86  |            |
| C6H12I1N2O4S2   | 716251.5402  | 564612.2656 | 165994.466  | 947806.4147 | 477827.1193 | 596030.4316 | 465465.8743 | 534147.5605 | 795312.2584 | 581117.6583 | 549459.3539 | 522150.1196 | 908307.6422 | 511400.8484 | 362407.4844  | 829465.7397 | 708281.0829 | 427231.4404  | 492627.6407 | 557131.9576 | 466654.7225 | 458701.3925 | 452523.4635 | 623929.3562 | 322203.8398 | 892397.1161 | 100141.4904 |            |
| C6H12I1N2O4P2S2 | 583849.7444  | 338891.4848 | 457635.2719 | 611447.4598 | 435875.1545 | 460725.736  | 719738.316  | 542322.2866 | 479931.425  | 587173.4148 | 547067.2582 | 499958.3076 | 251451.0053 | 476704.9885 | 28970.3443   | 313863.8935 | 518657.7114 | 592824.8542  | 612146.092  | 426366.9647 | 531732.3614 | 356436.1589 | 356506.1233 | 58649.1381  | 132416.796  | 358906.2925 | 50476.1473  |            |
| C6H12I1N0P      | 31576.3111   | 216698.02   | 31141.7263  | 367599.0217 | 53128.66527 | 241626.0495 | 176798.4279 | 641159.824  | 616065.7946 | 668804.616  | 434280.148  | 3112606.853 | 278940.6314 | 46862.59702 | 218641.713   | 1300010.93  | 92820.3445  | 32036.0779   | 21630.2004  | 138808.4083 | 872240.3435 | 72949.1374  | 209691.5628 | 72910.7752  |             |             |             |            |
| C6H12I1O6       | 1412277.595  | 111434.257  | 149989.137  | 819626.3454 | 1022572.576 | 877393.9109 | 1050427.342 | 1483454.687 | 1155078.388 | 142745.344  | 1238974.148 | 145257.542  | 23401.2765  | 1703361.163 | 1846116.6128 | 1033506.874 | 1140739.395 | 882361.6148  | 117352.589  | 1187022.525 | 348490.1238 | 760245.1636 | 225454.938  | 860245.394  | 715662.337  | 1898085.38  | 188699.319  |            |
| C6H12I1C1O6     | 115127561.8  | 119345876.7 | 13164808.2  | 114860203.1 | 10229275.6  | 104554246.1 | 13783221.5  | 1933997.33  | 1193264.6   | 1039397.33  | 1193264.6   | 1039397.33  | 1193264.6   | 1039397.33  | 1193264.6    | 1039397.33  | 1193264.6   | 1039397.33   | 1193264.6   | 1039397.33  | 1193264.6   | 1039397.33  | 1193264.6   | 1039397.33  | 1193264.6   | 1039397.33  | 1193264.6   | 1039397.33 |
| C6H12I1N0P2     | 40903.85504  | 42137.0214  | 479116.2541 | 46161.10516 | 208048.7856 | 199174.093  | 46135.84533 | 340884.9631 | 95907.10344 | 674728.6028 | 316817.7227 | 29895.71069 | 3361.10963  | 28864.73852 | 43732.19165  | 23801.4805  | 138946.183  | 52919.2409   | 100374.8458 | 45733.292   | 40413.20808 | 249976.3408 | 338017.2239 | 56994.93235 | 40907.09926 | 65867.32865 | 71874.43509 |            |
| C6H12I1N02      | 558433087.6  | 47503260.67 | 348510136.4 | 530152545.2 | 420429736   | 429062926.6 | 448715799.3 | 404598692.3 | 464472707.4 | 411495343.6 | 387497451   | 43339854.4  | 445833570.4 | 418480579.4 | 563855800.2  | 277231928.1 | 245457926.1 | 503579829.9  | 434135370.9 | 675084859.7 | 541290982.9 | 491103617.6 | 440258936.3 | 489157316.3 | 252202522.2 | 243470828.4 |             |            |
| C6H12I1N03      | 34791546.68  | 215274.927  | 208599.7309 | 167889.5726 | 128883.6682 | 93255.303   | 136740.7621 | 145303.7085 | 208872.7786 | 244274.1839 | 241091.9832 | 71195.80653 | 289842.1705 | 190277.4257 | 32835.099    | 152899.3712 | 169772.2941 | 302246.7242  | 811526.301  | 282361.4359 | 263459.1002 | 80763.1499  | 182803.0188 | 219624.9325 | 218909.5062 | 121683.0186 | 126021.3359 |            |
| C6H12I1N03      | 34791546.68  | 215274.927  | 208599.7309 | 167889.5726 | 128883.6682 | 93255.303   | 136740.7621 | 145303.7085 | 208872.7786 | 244274.1839 | 241091.9832 | 71195.80653 | 289842.1705 | 190277.4257 | 32835.099    | 152899.3712 | 169772.2941 | 302246.7242  | 811526.301  | 282361.4359 | 263459.1002 | 80763.1499  | 182803.0188 | 219624.9325 | 218909.5062 | 121683.0186 | 126021.3359 |            |
| C6H12I1N03      | 34791546.    |             |             |             |             |             |             |             |             |             |             |             |             |             |              |             |             |              |             |             |             |             |             |             |             |             |             |            |

|                 |             |              |              |             |             |             |             |              |              |             |             |             |             |              |             |             |             |              |             |             |             |             |             |             |             |             |             |             |
|-----------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| C6HC8C107P2     | 10353090.81 | 10024892.24  | 9087941.603  | 9306565.84  | 8717839.177 | 8239724.373 | 8674179.761 | 8765855.31   | 9761781.088  | 9134855.217 | 9895199.676 | 9225149.502 | 8554624.305 | 9251401.153  | 9785410.822 | 10100941.96 | 9194209.965 | 9376004.229  | 9342647.636 | 9936637.714 | 9169079.664 | 7822913.302 | 9431795.765 | 9142461.467 | 9904931.537 | 9670579.279 | 9113976.304 |             |
| C6HC8N03P2      | 14417163.69 | 61104.12891  | 63163.72677  | 192520.781  | 84168.17597 | 312823.8841 | 64512.71499 | 417655.902   | 41749.12796  | 78471.49424 | 120996.978  | 29269.13854 | 45555.36741 | 141647.2753  | 100142.6888 | 49357.63093 | 76261.95544 | 220630.8594  | 42111.16842 | 99365.2341  | 77947.46222 | 109191.886  | 36019.03774 | 46827.31778 | 91400.08426 | 18213.36968 | 62896.02701 |             |
| C6HC8N307P2     | 7339.34     | 2098525.46   | 278678.9868  | 743250.441  | 1117597.941 | 762614.0944 | 602186.1366 | 761574.4859  | 83138.9592   | 565858.745  | 784789.6506 | 710586.1411 | 841082.3394 | 911313.0857  | 3707903.45  | 1181600.119 | 1010737.217 | 1326804.182  | 1341759.306 | 704192.2679 | 986822.9436 | 1606588.27  | 1425808.344 | 1050936.194 | 1533013.468 | 2329909.061 | 1826078.952 |             |
| C6HC8N60P       | 316912.0219 | 1269673.18   | 724896.8196  | 551353.6183 | 478214.3281 | 627906.4945 | 1368892.423 | 426225.5828  | 179993.825   | 714999.8225 | 78893.9302  | 2828543.269 | 299384.705  | 1913134.153  | 181142.252  | 929738.2339 | 221243.007  | 443728.346   | 2889878.277 | 1578497.672 | 1233970.472 | 2058193.053 | 3022572.106 | 1507598.969 | 1422301.506 | 2004413.079 | 1825329.948 |             |
| C6HC8N60P       | 15595.1234  | 2411209.911  | 722977.7895  | 21310.8076  | 366295.3118 | 275956.0159 | 725422.7441 | 990280.851   | 592811.2266  | 14868.8908  | 126312.7883 | 574062.2688 | 498797.5452 | 32930.2682   | 266436.951  | 398009.114  | 432934.8598 | 259175.405   | 144047.6823 | 11255.1341  | 357104.4863 | 1156565.395 | 103193.9672 | 357104.4863 | 1507598.969 | 1422301.506 | 2004413.079 |             |
| C6HC8N60P       | 348978.5517 | 140257.733   | 770575.5534  | 589848.8573 | 488953.9431 | 673148.3817 | 1354922.201 | 942062.549   | 114897.0346  | 726595.7488 | 432053.8933 | 2166100.765 | 1722719.145 | 1318179.688  | 1889697.325 | 1217557.771 | 888017.8529 | 1390580.108  | 2424806.04  | 1543351.373 | 911540.827  | 232031.1395 | 3200828.318 | 1536186.513 | 1158247.106 | 1763636.922 | 1886347.988 |             |
| C6HC8N706P2     | 12006.13    | 94259.8768   | 164355.1442  | 116823.4291 | 178021.5059 | 184111.7192 | 208955.7732 | 84542.74847  | 1148761.6341 | 135716.3277 | 135289.4481 | 232420.0779 | 80928.78494 | 67147.5305   | 104080.6884 | 213026.8834 | 120913.1673 | 197069.7422  | 104678.5711 | 123494.8397 | 74822.34654 | 149583.4897 | 24591.23433 | 116736.1567 | 126960.2234 | 1886347.988 | 1886347.988 |             |
| C6HC4C1N05S     | 2466431.204 | 2175207.756  | 1184504.563  | 1515818.288 | 1062973.838 | 1284760.973 | 1491150.647 | 1867989.031  | 1742306.88   | 1979799.196 | 1232619.73  | 1340646.487 | 1447313.758 | 1092529.09   | 2128915.454 | 1771284.611 | 967231.8217 | 1860363.618  | 1298324.016 | 1385928.07  | 1746638.661 | 679337.8715 | 922594.8915 | 1092210.554 | 2727253.135 | 1035632.558 | 1207743.592 |             |
| C6HC4N3P        | 182508.3941 | 138376.0094  | 353217.5847  | 549461.6848 | 151342.8317 | 297969.3226 | 229703.8787 | 245539.1115  | 142619.9296  | 39436.41708 | 171159.9088 | 255900.0613 | 174223.5303 | 1121.60.1156 | 93445.55231 | 125934.1858 | 76095.07737 | 124802.664   | 76949.72838 | 99480.43614 | 179861.7746 | 134101.4877 | 447346.0229 | 75575.95372 | 182414.5327 | 204624.7925 | 785364.1056 |             |
| C6HC4N10        | 289759.3299 | 218212.6366  | 278642.9475  | 121186.1241 | 407552.0823 | 88664.46009 | 78279.66087 | 369357.4335  | 121312.9237  | 1704535.212 | 3343012.513 | 244369.6204 | 323548.4276 | 326255.1511  | 852408.7343 | 2835625.766 | 2335276.859 | 677308.5011  | 680203.9404 | 1118031.071 | 1088464.048 | 91276.7383  | 444445.1759 | 149375.5828 | 86726.92888 | 172729.1272 | 262733.5306 |             |
| C6HC4N6010S4    | 128874.4601 | 123878.2511  | 1405905.4652 | 113745.6627 | 102758.3326 | 84279.40095 | 127355.7111 | 56893.30008  | 95371.63271  | 77202.91398 | 85493.36846 | 91278.97968 | 127547.1849 | 158682.3119  | 232384.043  | 39313.10516 | 71736.98136 | 159494.8271  | 81177.2036  | 136226.6378 | 123839.2016 | 82142.43563 | 74024.94641 | 80585.97765 | 110724.3011 | 39430.0353  | 38414.35631 |             |
| C6HC4N8017P2    | 30204039.74 | 31786401.15  | 30909357.48  | 32857137.1  | 33013788.2  | 31125434.51 | 31157879.67 | 32928163.1   | 30720231.2   | 32218691.49 | 2598975.95  | 25972572.95 | 26854081.54 | 29387568.38  | 27611668.22 | 27506379.58 | 27371842.24 | 27127262.55  | 28044797.86 | 25776634.33 | 27850292.85 | 29084855.32 | 26092214.31 | 25937365.99 | 25320600.15 | 2857780.79  | 29093995.02 |             |
| C6HC4N9P3       | 82395.46717 | 52197.34222  | 87906.36388  | 51657.10845 | 50242.64015 | 120007.985  | 54580.19809 | 61111.5076   | 92516.76834  | 88835.11643 | 95023.20725 | 67246.95639 | 99643.09735 | 73394.79931  | 102404.8735 | 84647.71052 | 77085.1622  | 66428.75147  | 121222.3801 | 100702.3168 | 145469.2221 | 429084.9185 | 496527.1392 | 288763.3891 | 144794.9166 | 69677.95039 | 133318.7481 |             |
| C6HC4O6S        | 16472413.54 | 30975095.55  | 15671061.23  | 19303899.73 | 14476311.71 | 12767543.09 | 22336174.18 | 15679160.5   | 9680344.674  | 6767303.04  | 622902.649  | 1540445.05  | 13155954.15 | 8354840.063  | 1167807.455 | 6444173.951 | 4805987.408 | 17313787.94  | 2366002.465 | 10177328.97 | 9446729.711 | 13229229.16 | 1872849.919 | 9231814.375 | 10861865.97 | 1632765.81  | 13508173.88 |             |
| C6HC8N30P2      | 133499.6985 | 91141.70996  | 241948.7299  | 68880.77599 | 91285.29518 | 36047.76748 | 87458.45556 | 44684.04775  | 25237.83041  | 95029.79335 | 99868.28753 | 142479.3508 | 33083.73259 | 79862.35752  | 111989.2518 | 101147.276  | 31260.14764 | 163409.4491  | 38519.24976 | 63538.22024 | 29287.078   | 96404.89876 | 64353.63781 | 94438.15657 | 84313.88222 | 178008.5531 | 69952.45655 |             |
| C6HC8N304P2     | 19438.31379 | 161432.891   | 22869.71115  | 20755.72369 | 21889.10419 | 19760.44579 | 29785.63531 | 61553.72118  | 18580.68041  | 19087.88662 | 20277.7831  | 21714.92479 | 18726.01126 | 2411.99999   | 181653.6042 | 22517.26758 | 17975.6267  | 198035.231   | 18558.29309 | 46766.40187 | 72455.43602 | 21086.17019 | 26154.89885 | 41059.04848 | 34732.48189 | 34732.48189 | 34732.48189 |             |
| C6HC8N90SP2     | 32803.02    | 336019.2944  | 396091.3791  | 28372.0716  | 111858.5467 | 162420.5845 | 256622.2815 | 283698.9414  | 365195.3682  | 439667.8099 | 62764.6325  | 452574.899  | 218313.3969 | 341.1965     | 58377.5808  | 27083.2179  | 117889.8336 | 527600.7215  | 139607.3220 | 503935.381  | 456341.3199 | 205937.1408 | 258763.6272 | 500010.0166 | 369215.2549 | 201088.3214 | 204410.0285 |             |
| C6HC8N7064P2    | 833141.3521 | 7448925.0668 | 69307.5311   | 711750.3893 | 857203.4211 | 696957.5491 | 619598.3157 | 743454.9884  | 670876.7331  | 735969.393  | 438265.6333 | 876053.7665 | 942313.9106 | 1002523      | 1287955.09  | 495904.2128 | 10268.9396  | 126857.16476 | 69801.3277  | 702656.4422 | 424885.1786 | 668617.6646 | 503356.2947 | 760038.7447 | 346028.1819 | 384586.9191 | 92535.6095  |             |
| C6HC8N0P3       | 298691.7097 | 391994.8719  | 6931.188923  | 624210.6215 | 1405718.876 | 462610.9847 | 375407.4292 | 2306757.762  | 97935.15123  | 181212.4836 | 306247.8873 | 601944.0426 | 348826.6505 | 561693.2091  | 231395.1378 | 228400.2655 | 201623.1235 | 245433.9282  | 74022.7177  | 315365.9023 | 347935.9946 | 289421.2575 | 467334.3479 | 432040.8452 | 415864.2125 | 71692.7400  | 274536.6695 |             |
| C6HC8N402P2S2   | 644746.1989 | 755082.2046  | 821381.7142  | 740433.8919 | 771612.876  | 841531.0221 | 944763.0629 | 853946.8213  | 69940.1048   | 789581.8369 | 91620.4182  | 729575.5532 | 593676.101  | 657697.7942  | 552497.7746 | 870692.3042 | 777177.9891 | 674543.9398  | 759297.183  | 822108.6867 | 786084.3656 | 835063.3841 | 602359.9489 | 648009.9484 | 658040.9265 | 702535.607  | 702535.607  |             |
| C6HC6N6         | 1153801.864 | 5969729.681  | 1388185.316  | 1210771.609 | 1158159.038 | 1121227.608 | 1214654.256 | 1155490.699  | 1307091.232  | 118474.763  | 1335655.535 | 1373600.887 | 1278691.467 | 1451662.86   | 1385535.184 | 1326295.024 | 1268981.571 | 1236062.17   | 1194527.493 | 1361207.364 | 1279710.953 | 1181136.67  | 1235941.245 | 1175592.074 | 1541262.921 | 1266478.409 | 970167.1769 |             |
| C6HC6O7S        | 13287394.83 | 31075323.74  | 3544518.65   | 16563683.01 | 1175217.752 | 1283347.754 | 2233442.697 | 1290527.959  | 6349619.496  | 5233118.493 | 6055181.96  | 105782.9183 | 10292100.54 | 8128092.189  | 6501787.372 | 10292100.54 | 8128092.189 | 6501787.372  | 10292100.54 | 8128092.189 | 6501787.372 | 10292100.54 | 8128092.189 | 6501787.372 | 10292100.54 | 8128092.189 | 6501787.372 | 10292100.54 |
| C6HC60R2P       | 103466.019  | 903743.8424  | 191732.314   | 218197.987  | 2126132.66  | 212047.765  | 1928088.687 | 1664731.818  | 2424485.26   | 2427992.539 | 918137.1999 | 2528665.953 | 127955.907  | 2482053.938  | 166940.7369 | 166711.4402 | 2517872.101 | 238733.662   | 215802.954  | 3159813.491 | 2585434.087 | 1479739.589 | 1634903.712 | 2704067.057 | 638619.1039 | 1545525.715 | 1722456.33  |             |
| C6HC60R2P       | 40142.095   | 634578.928   | 5161076.028  | 5490185.122 | 3143108.317 | 763374.903  | 526721.381  | 188.274390.8 | 236122.002   | 913527.222  | 9305439.366 | 1458880.906 | 248351.051  | 92985.7169   | 25371.71409 | 2672845.295 | 47311067.48 | 423980.45    | 2582593.975 | 1683418.599 | 1279429.864 | 224015.418  | 423980.45   | 2582593.975 | 1683418.599 | 1279429.864 | 224015.418  |             |
| C6HC7C1N2015P2  | 8069028.406 | 6597856.996  | 643952.262   | 5621659.05  | 4621527.762 | 4913078.466 | 5702484.506 | 4610459.470  | 635803.047   | 5942464.26  | 6909922.127 | 633313.348  | 3450353.636 | 331349.373   | 306793.182  | 638344.941  | 66411.0102  | 6152105.062  | 6507806.988 | 6324620.35  | 2206868.021 | 553270.328  | 2973064.964 | 5592624.172 | 6287168.44  | 666038.511  | 680480.654  |             |
| C6HC7C1N305P5   | 5876024.74  | 6540879.962  | 432663.625   | 6651347.348 | 5944936.356 | 3136236.549 | 5066432.765 | 5224433.618  | 3919636.34   | 523979.703  | 341757.803  | 445131.754  | 2311387.285 | 5893146.252  | 4314019.375 | 3365251.167 | 3724643.007 | 3819400.7    | 4342680.945 | 6079185.591 | 332255.94   | 2202913.088 | 2967155.105 | 137578.124  | 4134106.974 | 289537.765  | 289537.765  |             |
| C6HC7C1N402P2S2 | 1316754.142 | 1527671.147  | 1239634.614  | 1197531.07  | 1132935.447 | 1212796.036 | 1461936.041 | 1519219.95   | 1063799.227  | 1642767.315 | 1329924.796 | 2284215.027 | 2374892.047 | 2279695.566  | 1814636.89  | 1714502.149 | 1215908.814 | 1528759.877  | 1315359.995 | 1224296.033 | 1544957.34  | 3802919.66  | 1534261.015 | 1420558.717 | 1598027.533 | 1420627.715 | 1420627.715 |             |
| C6HC7N00P       | 300779.2599 | 2229828.924  | 164519.2139  | 218791.399  | 164594.8525 | 165950.8194 | 180842.3814 | 92980.1765   | 93681.00909  | 260033.1184 | 226009.1145 | 217379.9447 | 108931.6754 | 17721.6997   | 228695.666  | 176096.851  | 165889.5521 | 218567.3598  | 149090.6268 | 216637.1334 | 174478.1906 | 151137.9412 | 198084.5    |             |             |             |             |             |

|                |             |             |             |             |              |             |             |             |              |             |             |             |              |              |             |             |              |             |              |              |             |             |              |             |             |             |             |
|----------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|
| C7H13N8P       | 415950.422  | 439819.3797 | 444877.9691 | 546683.0223 | 405858.5468  | 526937.69   | 369506.4967 | 365677.1951 | 371107.9096  | 307144.8605 | 830050.867  | 393669.771  | 347178.7934  | 325257.2503  | 349229.8968 | 2041906.906 | 2391808.624  | 270060.2566 | 317089.9252  | 682047.4444  | 271370.6448 | 310473.7513 | 282777.008   | 319238.278  | 343252.6909 | 509188.836  | 592200.9365 |
| C7H14C4N5O8S4  | 161228.7956 | 386920.2139 | 147126.1126 | 282754.5588 | 150125.1463  | 221230.2055 | 316580.3661 | 233338.365  | 30194.22995  | 206921.8449 | 138018.7816 | 13888.39435 | 183492.9772  | 261069.4234  | 304837.0639 | 279083.6068 | 160882.8057  | 274499.1783 | 68189.52222  | 294983.8896  | 12829.68903 | 123738.8435 | 370856.4142  | 8421.641634 | 12459.37371 | 11914.0293  | 232536.9437 |
| C7H14C2N2O8P2  | 114252.6209 | 187855.7929 | 180548.3404 | 99684.74479 | 157565.586   | 169756.8847 | 145614.3914 | 157690.5652 | 144089.3134  | 224589.0085 | 157616.6855 | 78257.91907 | 01665.50001  | 89228.84366  | 92711.31972 | 78625.64624 | 94350.90478  | 76951.64668 | 124813.9976  | 146006.8043  | 122439.7339 | 220999.1490 | 238034.1764  | 73648.91169 | 129904.8076 | 155388.5186 | 92425.24209 |
| C7H14C3N3O10S2 | 185486.4108 | 150526.1711 | 23520.4595  | 271445.7425 | 262251.6445  | 189863.984  | 190138.1188 | 234966.201  | 164573.1233  | 29979.0057  | 27474.2974  | 26210.0688  | 207826.1274  | 308351.1429  | 190168.2958 | 487870.3554 | 556887.4374  | 74956.32554 | 3341.68.8521 | 275525.6916  | 200473.9347 | 329721.9151 | 14828.7841   | 210696.904  | 33659.2966  | 307334.1965 | 21071.6878  |
| C7H14C3N3O13P  | 190257.6373 | 160516.3635 | 23254.10245 | 171025.9692 | 201544.76    | 162549.956  | 139018.8992 | 197684.4974 | 14277.8623   | 20977.6087  | 21273.0051  | 129108.0634 | 0161661.5083 | 111986.2283  | 127799.7157 | 251067.5107 | 45943.3965   | 106850.1593 | 10239.3567   | 25446.1523   | 204083.9999 | 178854.5283 | 117960.0509  | 102032.9217 | 204801.9288 | 83965.12003 | 113549.5534 |
| C7H14N10O5     | 38850.25304 | 34074.23093 | 28525.55527 | 20511.45326 | 35585.70344  | 35576.31684 | 24851.40149 | 139623.4011 | 35475.67752  | 26042.00203 | 24080.97549 | 92473.87679 | 122022.2686  | 016332.45677 | 13869.64881 | 787355.2005 | 647901.6818  | 242757.5732 | 51947.70407  | 166543.0763  | 122813.5581 | 13118.96381 | 12520.63793  | 16072.42314 | 16914.4949  | 36278.36896 | 47437.35227 |
| C7H14N12O3     | 1430116.517 | 608159.2637 | 1497095.966 | 769095.1984 | 1320665.9934 | 422821.195  | 4108847.62  | 955758.397  | 509414.8591  | 1464936.314 | 1054625.557 | 2027023.589 | 3085715.237  | 2123076.603  | 1507429.374 | 5354083.83  | 5356691.84   | 1125401.147 | 552738.057   | 2877270.561  | 266995.728  | 654970.7851 | 849956.2358  | 1106922.327 | 1016984.967 | 1631697.66  | 5541505.096 |
| C7H14N2O3      | 7093043.371 | 8810270.996 | 5379152.961 | 2702009.588 | 6052024.668  | 3666330.116 | 8020779.254 | 879927.5472 | 9527233.871  | 6258353.035 | 5455078.879 | 647207.1438 | 771042.9947  | 3147328.952  | 2763801.646 | 2820096.865 | 24135222.974 | 2674437.525 | 1028990.28   | 1693832.193  | 1296217.953 | 3150567.596 | 6276899.466  | 734783.178  | 535266.45   | 2933102.251 | 4274531.212 |
| C7H14N2O4S2    | 1525188.021 | 438322.0225 | 1652094.816 | 1748238.188 | 1534273.695  | 1228226.424 | 1124278.301 | 878165.2435 | 1564159.985  | 1724825.074 | 1857474.687 | 1951659.865 | 1827434.081  | 251886.534   | 627449.6543 | 965974.9296 | 801140.5487  | 479244.2143 | 2218464.427  | 1658426.571  | 1197356.459 | 1471837.529 | 883105.7541  | 1733165.6   | 934390.3661 | 1209785.287 | 1092102.771 |
| C7H14N2O5P2    | 59772.33804 | 210425.6895 | 35216.1449  | 44200.26184 | 101746.1312  | 103598.9884 | 111885.9719 | 129203.8366 | 21744.97832  | 115915.9449 | 46311.30198 | 20341.84446 | 410343.5282  | 197478.3529  | 21884.2852  | 40624.23603 | 27972.91456  | 19795.3812  | 112157.6938  | 51179.5959   | 19830.05514 | 24859.83157 | 30366.4091   | 22342.49945 | 21040.80319 | 22666.41546 | 19577.50397 |
| C7H14N2O6      | 1296942.267 | 219532.8579 | 1362600.025 | 2345830.287 | 2068369.211  | 2032940.835 | 2113733.628 | 1704074.187 | 17157814.796 | 319472.829  | 1463455.466 | 258001.723  | 1220524.016  | 3032543.282  | 123384.381  | 1468087.7   | 2028386.63   | 110643.7814 | 1514648.633  | 1267166.361  | 1115969.293 | 477372.3509 | 192855.7271  | 824665.3319 | 320603.1186 | 1338263.545 | 1307426.706 |
| C7H15C2N2O6    | 296569.7821 | 53640.91602 | 284537.8697 | 502177.2281 | 382069.1593  | 365964.9127 | 369007.4266 | 375850.3151 | 230247.8593  | 225897.4856 | 313528.3595 | 455656.6067 | 265468.6974  | 516019.3463  | 56047.95273 | 426204.894  | 484921.8864  | 29187.45475 | 327182.1848  | 303959.5857  | 267207.3261 | 112855.5241 | 71568.08419  | 183544.4098 | 77732.36088 | 30405.6889  | 329646.8134 |
| C7H15N03       | 178674413.9 | 210623177.3 | 264399148.4 | 279855037.2 | 268719025.1  | 255295161.9 | 189732950.5 | 212212230   | 146594412.6  | 179494687.1 | 174327035.1 | 224327670.2 | 308470354.8  | 271426990.6  | 147179317.5 | 240694174.9 | 222157489.6  | 140038574.9 | 256818208.2  | 347364935.6  | 291823202.2 | 214343995.8 | 285744018.2  | 94666120.39 | 21701587    | 84710987.33 | 102899372.6 |
| C7H15N3O11S    | 1087124.962 | 957229.4122 | 1236545.92  | 860282.6235 | 933181.0032  | 762725.267  | 966768.6785 | 915923.9849 | 764228.1962  | 1304863.858 | 1173353.968 | 421453.1729 | 660685.6653  | 700077.7041  | 822106.361  | 627953.334  | 375923.03    | 419152.0551 | 622265.3998  | 1574700.902  | 1101172.218 | 666630.4063 | 531224.3488  | 648727.5965 | 1085792.909 | 633119.0446 | 614734.26   |
| C7H15N3O2P2    | 3791761.619 | 50407.4866  | 3942130.208 | 406121.131  | 4120307.568  | 3861465.708 | 4113304.515 | 4414126.011 | 447126.706   | 4998603.061 | 5794784.812 | 5475342.261 | 7259965.969  | 7114313.494  | 8191847.463 | 4878992.405 | 4298667.67   | 7444006.42  | 5952307.402  | 5872518.828  | 620252.441  | 4170437.69  | 5435841.742  | 5253236.86  | 5887360.611 | 5303884     | 5156627.734 |
| C7H15N3O3      | 2254603.175 | 804801.8228 | 1219745.672 | 1917343.197 | 873376.6938  | 1135417.387 | 1432750.063 | 1129307.654 | 2022180.593  | 3388122.149 | 1238064.493 | 1959888.55  | 3088122.149  | 1841034.89   | 169222.473  | 2657166.355 | 1047330.569  | 1793556.778 | 1054758.017  | 2205755.939  | 3436619.478 | 1054758.017 | 2205755.939  | 3436619.478 | 1793982.673 | 4432364.364 | 5279493.058 |
| C7H15N8O9P     | 95860.52245 | 364508.6581 | 1153127.305 | 1151386.535 | 1237282.035  | 1124484.46  | 1143736.621 | 1323010.617 | 961028.467   | 752666.3259 | 487152.3241 | 936578.287  | 752589.8793  | 90260.0205   | 882096.0384 | 1174446.195 | 1647741.395  | 607290.5705 | 570244.796   | 472700.4034  | 996154.8218 | 1166838.359 | 137808.4178  | 184488.584  | 82188.942   | 116685.468  | 1127884.999 |
| C7H15N8O5P3    | 30510.51408 | 128649.587  | 46091.38014 | 10582.62655 | 28079.73223  | 35531.65007 | 63255.33468 | 95790.11068 | 67877.81078  | 18322.43741 | 18634.75246 | 34743.52719 | 42434.87236  | 19612.00154  | 253274.2625 | 37302.3866  | 31749.53048  | 264417.954  | 20231.12769  | 32900.65535  | 18462.16317 | 145749.8851 | 192384.2012  | 50886.80644 | 44849.33301 | 44066.35129 | 84031.29267 |
| C7H15N8P       | 187956.3205 | 144074.9431 | 20174.98154 | 25242.0608  | 267807.6274  | 255654.9537 | 206378.6179 | 201320.4286 | 211757.1397  | 176586.5808 | 219054.1893 | 182955.6399 | 110589.9739  | 146813.5177  | 162928.8795 | 155778.799  | 163490.2034  | 152600.5206 | 109643.118   | 134991.0086  | 153415.5399 | 163733.0377 | 118259.5137  | 120444.8053 | 167990.6037 | 201585.0453 | 182081.4394 |
| C7H15O2P2      | 12737.62079 | 76792.68062 | 57158.11728 | 10471.903   | 373061.992   | 55072.2674  | 126374.1006 | 74859.6994  | 125268.34    | 267498.7875 | 68995.31668 | 174007.978  | 2761424.531  | 45553.49416  | 34805.73332 | 48993.02745 | 132689.2973  | 36806.29933 | 29367.85652  | 354743.1783  | 53046.59982 | 41077.17818 | 1183107.009  | 131094.131  | 181266.0398 |             |             |
| C7H16O2S2      | 1297402.857 | 1525786.943 | 526840.781  | 1591054.231 | 913483.391   | 1091488.503 | 1219014.216 | 1285040.37  | 1248283.515  | 927867.510  | 1200259.604 | 849214.7515 | 972601.7404  | 962309.3518  | 2172245.105 | 3643386.392 | 310205.109   | 2378000.767 | 655397.640   | 1562670.205  | 3112598.981 | 71860.392   | 99989.87804  | 7543998.759 | 1664662.629 | 820573.2058 | 861010.1159 |
| C7H16N3O4P     | 116636.4001 | 121477.0448 | 133595.5615 | 204077.7569 | 359217.9729  | 124666.7699 | 25521.9239  | 387642.7817 | 282726.2336  | 56256.0741  | 196894.2451 | 1503961.627 | 274953.5989  | 506041.0121  | 399932.3279 | 287960.61   | 274316.0963  | 39340.5616  | 101050.651   | 87341.5193   | 458697.166  | 473873.2008 | 99848.6753   | 234967.8327 | 112478.0635 | 321532.3592 | 135932.1523 |
| C7H16N4O2      | 4207639.589 | 571637.158  | 5848478.249 | 609614.439  | 7184751.12   | 8997842.648 | 6819392.683 | 434367.387  | 591630.268   | 5119940.246 | 3105996.783 | 323973.186  | 331277.582   | 2925838.008  | 6382696.392 | 1507606.795 | 1244013.154  | 746537.587  | 1227609.477  | 5680771.895  | 5119434.9   | 8252385.373 | 11929434.31  | 1040933.31  | 585016.1622 | 3145555.72  | 2916050.889 |
| C7H16O6        | 18203209.6  | 2393925.927 | 18709997.76 | 2074693     | 16227920.76  | 18709997.76 | 184044.124  | 16175530.9  | 1232237.01   | 3925573.181 | 20389927.32 | 10697967.88 | 10697967.88  | 10697967.88  | 1536711.145 | 1327156.18  | 1310783.21   | 23173396.38 | 18072540.98  | 12685524.53  | 1927356.98  | 101700.137  | 1001933.17   | 1001933.17  | 1001933.17  | 1001933.17  | 1001933.17  |
| C7H17Br2N2O6P5 | 12379.6916  | 113510.8703 | 98085.56992 | 103987.8976 | 100728.6978  | 80699.66054 | 130876.2585 | 85474.97032 | 95371.63271  | 71977.97536 | 81736.0898  | 87863.07174 | 113099.8661  | 146579.6117  | 21668.95403 | 65260.16637 | 65431.72684  | 163504.635  | 69574.92666  | 129266.465   | 122424.1088 | 77081.45952 | 71751.277    | 78216.74367 | 101264.6342 | 67544.9727  | 71228.06746 |
| C7H17C2N2O2P3  | 373157.1076 | 207262.623  | 30937.2489  | 375064.6429 | 382061.1368  | 394497.9117 | 279322.759  | 356653.7561 | 281252.1058  | 37740.9139  | 415145.5479 | 340494.821  | 263272.7197  | 462113.2478  | 206705.1521 | 596501.8449 | 42622.8668   | 150649.3817 | 422286.511   | 508084.3184  | 359034.7246 | 363186.7814 | 203393.0818  | 423419.5735 | 450258.5406 | 416664.145  | 367927.3233 |
| C7H17N10O5P    | 8118.82645  | 20882.80717 | 75991.75515 | 10452.5253  | 83211.5253   | 114513.9923 | 85523.42781 | 81184.48585 | 91739.32791  | 78687.79631 | 101582.8923 | 147735.4106 | 191758.1387  | 63155.32137  | 256278.734  | 182389.7767 | 58585.43593  | 137577.3456 | 35357.25042  | 108114.9765  | 64276.71814 | 30363.3515  | 808083.60431 | 7379382.673 | 4432364.364 | 5279493.058 |             |
| C7H17N2O7P     | 949255.4872 | 473159.9687 | 473579.8758 | 102525.2639 | 72467.2866   | 347349.8052 | 846055.5555 | 186152.0568 | 219528.148   | 81258.9437  | 897881.1869 | 13809.79373 | 674879.9712  | 159738.5499  | 176815.1439 | 926922.3357 | 14206.7295   | 459535.3246 | 1039652.504  | 1496484.5151 | 15742.35786 | 984828.239  | 1015282.588  | 86229.9205  | 44534       |             |             |

|                |             |              |             |             |              |             |             |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |             |             |             |             |  |  |
|----------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--|--|
| C7H3NO5SP2S2   | 118113.0852 | 1319470.588  | 1518385.303 | 525146.9443 | 1019191.15   | 399522.5392 | 418406.3169 | 502342.5628  | 429706.6324 | 543812.0765 | 511615.0676 | 480575.3824 | 371680.0044 | 459070.4121 | 441129.3513 | 421939.5231 | 471838.382  | 414183.1193 | 479911.7301 | 505336.8634 | 517489.9192 | 419948.9293 | 502088.0013 | 340016.3083  | 492524.3525 | 453585.8402 | 361101.3293 |             |  |  |
| C7H3NO6S       | 17970736.74 | 20285356.72  | 15126283.62 | 17202588.1  | 10925354.22  | 13449535.8  | 4893536.44  | 9006905.94   | 8845454.653 | 11301562.61 | 73136209.66 | 10563775.92 | 1204812.32  | 6646175.063 | 9929176.374 | 12555349.49 | 9783095.902 | 14859003.28 | 9631632.445 | 1180563.37  | 11528351.89 | 7454287.356 | 5706813.117 | 8577779.246  | 15230356.27 | 6607095.744 | 8116743.666 |             |  |  |
| C7H3NO3OP2     | 18735209.37 | 280967.4912  | 193017.5653 | 247161.2386 | 178340.0664  | 248507.2748 | 259380.807  | 165599.2594  | 245194.308  | 256898.001  | 222514.7213 | 293432.1757 | 133682.0831 | 303683.4148 | 309971.1319 | 275884.884  | 332231.2354 | 314808.4845 | 363486.696  | 264657.3736 | 228927.2363 | 191576.7403 | 208948.2559 | 262180.236   | 128370.6131 | 410260.6832 | 368167.4571 |             |  |  |
| C7H4CIN5OP2    | 289007.0698 | 319266.2321  | 258983.7329 | 413534.1455 | 347775.3761  | 271109.0687 | 275498.8818 | 232498.8818  | 314334.4688 | 4011.8006   | 297019.6808 | 346236.666  | 688073.9334 | 962925.5717 | 938487.61   | 1611526.186 | 1259511.17  | 1195944.49  | 140274.477  | 223236.302  | 117278.048  | 819905.3356 | 2477858.464 | 37341.1728   | 1076914.946 | 1152394.762 | 649651.018  | 488406.9866 |  |  |
| C7H4CIO2P3     | 215613.3265 | 264298.502   | 151931.9328 | 159355.4062 | 157255.0131  | 233845.9586 | 125685.5496 | 129524.659   | 149401.3501 | 14131.9656  | 86166.6419  | 688073.9334 | 92848.2987  | 37338.4622  | 56783.84431 | 121987.1379 | 91385.54831 | 57114.86496 | 95983.97668 | 222682.483  | 134852.2373 | 87629.41902 | 86489.44704 | 754230.6412  | 133725.2569 | 67026.0292  | 15626.6609  | 11867.3658  |  |  |
| C7H4CIN3S2     | 400046.6892 | 522703.2691  | 422395.6495 | 289198.0615 | 307252.2734  | 180084.3646 | 259555.3752 | 335077.1089  | 268282.249  | 394860.285  | 428892.0334 | 113988.4403 | 162957.3415 | 116966.546  | 493511.2951 | 138145.7199 | 122613.786  | 460538.1266 | 138318.9048 | 383997.447  | 291455.393  | 357440.4838 | 25631.6408  | 345103.3917  | 186232.6667 | 190956.9202 |             |             |  |  |
| C7H4N4O5P2     | 4512104.921 | 5993669.865  | 5289704.506 | 630419.189  | 5059308.366  | 5293280.736 | 7052390.695 | 506747.523   | 300422.869  | 3385681.047 | 2748907.934 | 3382309.866 | 152537.549  | 441669.714  | 828250.9425 | 329723.73   | 4312830.041 | 2877568.33  | 4450220.734 | 3838913.814 | 3706824.423 | 1728904.641 | 2003662.182 | 2313207.4451 | 4179777.468 | 3546975.444 |             |             |  |  |
| C7H4O9P2       | 26544216.19 | 27863752.62  | 26518615.38 | 24898856.44 | 26067708.86  | 25867220.77 | 25489311.49 | 23949311.4   | 25542982.36 | 25308229.37 | 26254484.78 | 25795972.75 | 25219587.79 | 25570762.5  | 2423391.17  | 26951473.07 | 25495063.43 | 2481631.55  | 25666107.39 | 26643879.94 | 25564994.87 | 24868962.47 | 26740682.93 | 25281063.12  | 26424186.98 | 2509598.58  | 24345513.4  |             |  |  |
| C7H5BN4OPS     | 73192.85539 | 84015.71046  | 19572.69443 | 57271.80695 | 107496.8689  | 24960.30064 | 57708.72432 | 69655.34902  | 15297.81816 | 24654.58302 | 83475.05413 | 42808.64716 | 46714.43343 | 10570.53884 | 61614.21869 | 198319.3345 | 205979.9261 | 63406.25629 | 31172.82877 | 76598.17081 | 57958.87641 | 47328.84378 | 56988.21805 | 24340.45028  | 67799.81228 | 58264.56571 | 44979.00592 |             |  |  |
| C7H5CIO6P2     | 702742.5387 | 1297500.192  | 386596.8023 | 460108.5304 | 444380.184   | 458587.8249 | 656909.0262 | 696426.1676  | 553539.5574 | 465099.3083 | 871220.6099 | 651203.2319 | 860535.5539 | 979374.6099 | 1911716.161 | 1198068.44  | 925393.037  | 1703218.823 | 1014425.099 | 828873.4993 | 409756.0879 | 1620892.694 | 1909715.163 | 942917.1164  | 333976.022  | 1879289.802 | 1664063.395 |             |  |  |
| C7H6N6O10P3    | 124349.604  | 182257.0842  | 139410.5836 | 194374.4963 | 154207.3925  | 183109.253  | 94091.94222 | 217358.728   | 84652.51129 | 69500.92644 | 189091.2888 | 193348.8456 | 172598.0733 | 257319.4012 | 118459.0648 | 231742.6978 | 177482.2537 | 228080.8308 | 257185.8922 | 282699.3416 | 224755.0615 | 74100.57046 | 213636.2765 | 197587.8341  | 268371.7895 | 240746.5223 | 72309.62128 |             |  |  |
| C7H6CIN4O6P3S5 | 2224470.482 | 2455880.419  | 2227433.393 | 2334991.572 | 2384063.353  | 2233104.54  | 2182738.371 | 2845339.442  | 2211581.182 | 2350130.39  | 2226007.242 | 1744594.101 | 2862407.968 | 2998263.677 | 2990179.548 | 2073837.198 | 2059822.837 | 2106414.002 | 2057878.92  | 1582066.951 | 1929781.412 | 2416207.344 | 2988399.912 | 1873354.174  | 173268.661  | 199840.863  | 1650907.733 |             |  |  |
| C7H6CIN5OP2    | 94230.45707 | 110938.5523  | 90591.22909 | 102523.2024 | 100478.4384  | 78690.80174 | 78207.91732 | 87027.82012  | 109788.1853 | 119742.8549 | 86944.03967 | 155120.6665 | 245590.1303 | 249994.7734 | 374347.1471 | 326870.4936 | 245919.2613 | 355095.375  | 66402.45004 | 276633.495  | 188522.0317 | 428162.5376 | 666813.1431 | 258917.5978  | 307449.6176 | 158954.7177 | 146691.5511 |             |  |  |
| C7H6C4N6O5S5   | 552400.3697 | 6875900.0662 | 524612.4329 | 478695.6797 | 550043.034   | 471788.5705 | 609828.1682 | 610838.7665  | 515135.5573 | 653277.5678 | 564621.125  | 725415.7822 | 771013.3581 | 830467.0855 | 1054014.241 | 360730.5785 | 323605.2945 | 921844.5042 | 536992.6431 | 674076.962  | 651854.3444 | 317651.1443 | 538379.9533 | 392611.7101  | 580209.0097 | 335785.5139 | 252952.4558 |             |  |  |
| C7H6N2O9       | 1680529.549 | 1444051.597  | 1333876.239 | 2045773.064 | 1131835.964  | 1443990.41  | 1081591.331 | 984329.8559  | 1789722.599 | 131559.549  | 1329300.875 | 1066190.837 | 1319104.242 | 942515.1409 | 1184164.148 | 1411504.724 | 1539378.933 | 1176066.959 | 830520.8763 | 970663.866  | 766763.6371 | 702520.0564 | 1078390.471 | 593830.619   | 651089.2599 | 2009551.54  | 2124744.618 |             |  |  |
| C7H6N4O7       | 1256085.43  | 1031758.524  | 108401.2459 | 1075089.743 | 1146755.71   | 683251.9676 | 1090800.946 | 1055932.898  | 964883.8204 | 1192624.77  | 1005360.876 | 1468447.993 | 657196.6586 | 1754539.421 | 711520.828  | 942152.828  | 1271019.232 | 127682.89   | 1599384.968 | 1186891.458 | 1081378.487 | 684861.0809 | 1060033.914 | 12031.837    | 731582.2296 | 1558164.296 | 91769.2872  |             |  |  |
| C7H6O6S        | 129164.837  | 10526.62752  | 15676.78517 | 75706.90507 | 62881.302    | 71108.95438 | 88617.69303 | 79372.35229  | 102339.1183 | 94299.99201 | 93342.6068  | 61348.03205 | 77990.53895 | 42053.33431 | 213206.1826 | 152607.2665 | 56767.96124 | 188230.9597 | 257711.5477 | 95059.92756 | 11594.71491 | 176334.3636 | 220977.3722 | 404917.8132  | 11526.80723 | 9968.829608 | 20035.1573  |             |  |  |
| C7H7BrC4N4O8   | 883573.0453 | 1009712.27   | 786376.4732 | 817342.8038 | 890527.2088  | 749229.4816 | 881495.2052 | 934189.5751  | 10176.99175 | 107926.858  | 875838.7692 | 833048.025  | 907057.502  | 107039.3909 | 1061671.924 | 1531447.379 | 619024.523  | 547360.2013 | 1381838.008 | 82173.7629  | 1703581.19  | 964783.6123 | 630951.9169 | 783585.4432  | 903239.211  | 447324.8838 | 396407.5122 |             |  |  |
| C7H7CIN6O18    | 162677.1793 | 18871.1321   | 16344.15069 | 137876.457  | 100941.0681  | 86575.54801 | 89117.85408 | 151103.0561  | 19106.46154 | 195923.05   | 223448.2026 | 20102.76147 | 177602.9318 | 611194.1559 | 133396.8984 | 15511.78939 | 38450.00732 | 1365949.913 | 147515.2235 | 168626.2479 | 22200.61543 | 232277.7808 | 783587.7646 | 19651.4959   | 20146.3428  | 15402.8329  | 51240.83519 |             |  |  |
| C7H7N2O        | 1445239.988 | 3782945.042  | 3335762.814 | 3126389.018 | 1264313.794  | 1298502.199 | 1797958.628 | 1140188.391  | 167006.5549 | 212324.618  | 1366174.576 | 98815.1066  | 1358581.551 | 179029.296  | 190038.954  | 1350091.622 | 1766062.511 | 1721303.214 | 138385.886  | 203371.6496 | 244731.474  | 1241191.412 | 743910.619  | 119328.011   | 846160.9192 | 2734327.17  | 2349519.053 |             |  |  |
| C7H7N2O        | 1168250.219 | 752025.4391  | 642729.331  | 1235105.041 | 13292585.496 | 822407.1166 | 228092.1478 | 1098169.512  | 437894.0622 | 1087827.903 | 1869277.574 | 712127.0099 | 653346.504  | 381665.962  | 2326542.726 | 2121161.102 | 2124036.739 | 2375240.569 | 2414072.235 | 215188.01   | 1876459.62  | 2314738.121 | 43371.75201 | 212127.62    | 2228984.64  | 2187762.17  | 2325827.19  |             |  |  |
| C7H7N2O        | 460221.3044 | 853460.448   | 850925.6938 | 105354.7966 | 818455.9163  | 711067.2788 | 988578.227  | 398585.7699  | 600131.4051 | 341404.6531 | 331487.5998 | 308155.031  | 570003.6674 | 719062.2153 | 395789.0617 | 290871.3071 | 25395.7015  | 121923.8374 | 830469.2314 | 675171.8669 | 648270.0858 | 135976.4353 | 903790.4273 | 19740.4175   | 96751.9823  |             |             |             |  |  |
| C7H7N2O        | 330464.1285 | 17377.6234   | 853601.8449 | 219198.9348 | 160084.0932  | 37525.2293  | 241416.0578 | 201372.437   | 238762.5529 | 193516.021  | 378673.0423 | 119154.5641 | 313873.2192 | 170556.4411 | 217009.3599 | 210205.4185 | 208561.7434 | 107152.6249 | 80798.28653 | 137699.5419 | 175472.6329 | 158763.5202 | 203845.7399 | 228845.8765  | 123522.9808 | 84351.79151 | 164364.3896 |             |  |  |
| C7H7N2O        | 562992.414  | 49787.6327   | 358978.1471 | 512373.0164 | 205015.4519  | 358978.1471 | 512373.0164 | 205015.4519  | 358978.1471 | 512373.0164 | 205015.4519 | 358978.1471 | 512373.0164 | 205015.4519 | 358978.1471 | 512373.0164 | 205015.4519 | 358978.1471 | 512373.0164 | 205015.4519 | 358978.1471 | 512373.0164 | 205015.4519 | 358978.1471  | 512373.0164 | 205015.4519 | 358978.1471 | 512373.0164 |  |  |
| C7H8CIN6OP2    | 7079590.982 | 6066643.824  | 4075647.42  | 4947926.627 | 532471.1962  | 4112523.226 | 6428384.789 | 574598.415   | 545471.284  | 510367.05   | 512137.285  | 495780.831  | 3361206.236 | 707062.065  | 590173.209  | 5437825.254 | 5251492.206 | 573582.615  | 5964026.45  | 5013259.785 | 3864574.138 | 3665389.804 | 4827334.242 | 1452147.389  | 533273.984  | 4371815.962 |             |             |  |  |
| C7H8CIN4O3PS   | 877156.6493 | 88585.1525   | 712029.232  | 717656.112  | 918341.6526  | 746579.2709 | 756992.6162 | 796907.1474  | 686270.1084 | 789145.2924 | 737092.4164 | 904710.8352 | 899132.2384 | 99925.9327  | 1247782.551 | 534811.655  | 430800.483  | 1324329.272 | 673952.982  | 942215.7379 | 793126.7514 | 425024.1177 | 703703.1809 | 469615.4723  | 722235.5623 | 307441.8307 | 387335.3414 |             |  |  |
| C7H8NO13PS2    | 38986.45262 | 12544.8946   | 16086.34523 | 17232.5052  | 20672.29643  | 25612.49528 | 12522.13615 | 19305.00017  | 16828.8563  | 12187.84509 | 27462.33562 | 15319.59981 | 19725.17645 | 14847.06973 | 71602.49919 | 38216.01806 | 12476.52548 | 68686.19823 | 92759.42741 | 18684.68941 | 10523.5034  | 61328.47153 | 87593.70088 | 157095.7421  | 1122.52768  | 78988.78451 |             |             |  |  |
| C7H8NO21P2     | 2848954.561 | 2893554.324  | 28415830.17 | 30205899.93 | 30205570.01  | 29399327.29 | 29927409.29 | 30982192.126 | 28891033.51 | 30979137.19 | 28941556.22 | 25444369.37 | 26800904.13 | 2784511.148 | 27721968.68 | 26472136.   |             |             |             |             |             |             |             |              |             |             |             |             |  |  |

|                  |               |             |              |              |             |             |             |              |             |             |             |             |              |             |             |             |             |             |             |             |             |             |              |             |             |             |             |
|------------------|---------------|-------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|
| C8H14N2O5        | 132237.0679   | 72932.91685 | 137988.8515  | 90830.35102  | 79671.33835 | 80342.15481 | 89943.06138 | 90217.37377  | 113047.9404 | 102206.7137 | 122587.3074 | 106165.6017 | 104150.9092  | 115392.7869 | 144346.9512 | 212324.0286 | 210314.0993 | 119289.001  | 176403.9634 | 192028.9177 | 156372.5544 | 164556.4504 | 250210.5359  | 122832.2821 | 94926.13601 | 77544.18977 | 90028.18414 |
| C8H14N2O5S2      | 111827.4357   | 102651.4947 | 106570.9815  | 129788.5481  | 109903.6367 | 108671.6843 | 97627.85283 | 109584.1038  | 140170.7517 | 78816.44389 | 92945.32281 | 71410.7392  | 83325.65034  | 71508.80443 | 93980.97532 | 158888.2449 | 127319.4229 | 121523.1274 | 93336.98177 | 100251.3401 | 95677.14527 | 460357.7796 | 7895471.915  | 133027.988  | 77329.09012 | 162643.1653 | 165477.8651 |
| C8H14N2O6        | 163662.9642   | 109630.2987 | 121096.8439  | 131969.0602  | 8258.66944  | 86409.4502  | 97671.87154 | 143572.8364  | 114341.7517 | 77173.66849 | 117927.6941 | 59704.04355 | 71039.44429  | 27211.82936 | 244345.6677 | 269196.5948 | 261952.0075 | 202670.092  | 119676.7416 | 194194.6386 | 156594.934  | 221633.7068 | 270873.9117  | 152218.5187 | 144292.4962 | 119629.9398 | 134619.206  |
| C8H14N6O2        | 7813792.459   | 330354.256  | 735550.6514  | 8833549.3247 | 3914165.914 | 5489581.79  | 6507627.094 | 3700706.785  | 4429128.015 | 5031846.024 | 4603908.055 | 4161197.018 | 5205797.9125 | 3907874.81  | 3580858.714 | 1715744.79  | 9982604.31  | 827601.78   | 327873.739  | 591921.916  | 4739815.416 | 2686952.402 | 253491.1652  | 561785.319  | 5048482.825 | 9676097.7   | 9945367.13  |
| C8H14N7O8P       | 461656.5849   | 342788.0509 | 605809.6935  | 648038.1002  | 544527.4842 | 437823.9038 | 471675.9748 | 538145.8306  | 401703.0794 | 626688.5821 | 629927.0587 | 726477.9997 | 835919.5313  | 1102887.546 | 862602.6666 | 1576430.345 | 1096194.322 | 538071.68   | 45745.8525  | 592341.004  | 92130.0957  | 1118435.342 | 821281.9243  | 102130.957  | 1888676.357 | 729593.0143 | 835021.3123 |
| C8H15CIN2O6      | 98450.15685   | 20388.71969 | 122104.3977  | 35083.46693  | 9777.611716 | 17924.11332 | 33193.99059 | 11204.50929  | 41451.13697 | 31896.30059 | 8658.544731 | 27446.51917 | 40062.00026  | 33636.65269 | 24058.55089 | 253803.5184 | 188626.6946 | 26522.25347 | 37194.88759 | 74181.67546 | 65418.69617 | 9059.650568 | 14688.14731  | 27721.80652 | 20571.93128 | 32992.08844 | 32707.22827 |
| C8H15CIN7O3PS    | 385084.2193   | 154187.1944 | 256398.3466  | 471618.678   | 285144.8423 | 241953.3208 | 342079.785  | 365210.3201  | 473117.2511 | 571940.6506 | 618633.936  | 538113.413  | 66999.2036   | 71083.1294  | 324872.0651 | 194048.0004 | 129512.7201 | 62700.0071  | 496334.3361 | 360246.9252 | 300836.4409 | 196747.0328 | 369605.7213  | 285522.0078 | 338221.8166 | 314312.3661 |             |
| C8H15NO7         | 1806461.138   | 1125413.43  | 1641633.789  | 2003249.071  | 1928678.223 | 1767841.659 | 1408102.246 | 1607449.279  | 1546674.856 | 2041125.166 | 2156762.911 | 1157275.58  | 1033205.258  | 157282.074  | 1070325.05  | 2817562.389 | 2175160.419 | 761330.0513 | 1925702.111 | 1814959.571 | 1550274.981 | 3115972.582 | 998933.1475  | 1973760.075 | 1940358.918 | 1934065.169 | 1845372.846 |
| C8H15NO9S        | 267180.7172   | 202905.1574 | 218475.9579  | 243067.2665  | 217700.5393 | 159155.7807 | 174175.7502 | 204574.9971  | 154374.9558 | 181562.9854 | 163488.5976 | 197847.8255 | 306530.398   | 250258.5943 | 283346.4559 | 646881.1754 | 647229.1187 | 281794.3715 | 156569.9904 | 318405.6689 | 243776.3825 | 197364.1033 | 242605.7252  | 159569.1763 | 256163.7403 | 286460.9383 | 341409.6449 |
| C8H15NO2S2       | 303540.2813   | 237729.3369 | 316402.7346  | 273220.0284  | 326661.5386 | 245046.3967 | 254349.5227 | 275865.2533  | 285607.1375 | 305531.8731 | 210976.0827 | 316559.3356 | 401927.6105  | 364698.2474 | 375231.692  | 314888.2811 | 273848.885  | 306323.3814 | 506785.3693 | 381434.3133 | 307190.1071 | 446361.2482 | 681282.3731  | 51811.1428  | 306281.8708 | 327514.657  | 316669.864  |
| C8H16CIN4O11P    | 131080.2801   | 218432.425  | 163122.8278  | 58512.45516  | 187517.3205 | 36443.41242 | 169532.852  | 205853.2994  | 50326.17807 | 54921.70456 | 167698.564  | 196083.3565 | 152802.905   | 143824.3769 | 146334.0091 | 71503.43587 | 159375.0077 | 173139.1597 | 92317.6841  | 166248.2844 | 167437.3633 | 83710.28519 | 95971.71787  | 72703.00077 | 83805.31153 | 127198.3092 | 71175.85154 |
| C8H16NP2S2       | 94777.43186   | 123098.5216 | 74956.31916  | 74364.24907  | 83008.88474 | 73737.20152 | 107336.2545 | 76538.75713  | 55619.3665  | 50884.93214 | 65791.08722 | 36876.48457 | 64488.74991  | 89344.42026 | 149230.3237 | 98066.70139 | 109886.9081 | 118505.746  | 84070.49171 | 149718.1695 | 97031.8971  | 57516.98096 | 94651.27079  | 52565.8872  | 56623.29077 | 21350.22217 | 32595.53528 |
| C8H16O3          | 85425.51949   | 80689.33266 | 2223867.085  | 68999.9825   | 80357.22724 | 1601691.84  | 1584027.816 | 65606.35868  | 88610.92209 | 62722.46597 | 1952632.159 | 74938.68618 | 70307.45443  | 83517.52852 | 69498.702   | 75630.57846 | 79756.77392 | 72981.41815 | 80995.06163 | 91801.98324 | 76024.78767 | 76000.42562 | 62677.87479  | 67428.93181 | 7939.36982  | 59218.4882  | 64245.65509 |
| C8H17BcIN5O7S    | 162737.2505   | 126401.3053 | 141453.0688  | 160884.2704  | 131706.1868 | 100072.712  | 82746.60936 | 169683.936   | 124783.1279 | 94325.00787 | 129105.9557 | 89421.45429 | 137419.9898  | 221708.4654 | 97388.75852 | 161871.6333 | 88132.51414 | 61861.59673 | 183187.9205 | 151823.3064 | 146290.1957 | 202753.4822 | 157591.7971  | 163162.2371 | 183998.2799 | 137493.0202 | 121590.5267 |
| C8H17CIN013PS    | 80849.11441   | 56971.00135 | 109243.1755  | 119676.3216  | 97160.04916 | 160178.6722 | 126066.7424 | 114694.0155  | 94875.80941 | 98063.85308 | 117178.4652 | 105949.358  | 65681.79981  | 118079.1299 | 75904.65054 | 78737.64098 | 77214.33296 | 56735.31858 | 119755.38   | 135113.8396 | 137760.7001 | 22416.78543 | 19156.06629  | 74680.06329 | 91589.0027  | 501.382022  | 50051.0815  |
| C8H17CIN3O6PS    | 103866.2038   | 55430.30153 | 23762.02318  | 9356.23751   | 52784.40497 | 57876.7283  | 68540.23922 | 62797.872    | 87974.39925 | 74563.9461  | 47795.0748  | 68094.98431 | 40704.81669  | 145426.4337 | 61598.9279  | 26177.62325 | 115910.2021 | 61182.08418 | 132680.9515 | 113502.7756 | 27611.12956 | 53968.29588 | 56051.56978  | 126856.8035 | 18668.4777  | 21455.40416 |             |
| C8H17NO2         | 47392.55508   | 35621.31979 | 998375.788   | 45282.01473  | 47328.4085  | 37487.37005 | 395250.2265 | 322971.76087 | 809614.1102 | 1240279.353 | 31952.7971  | 23964.56065 | 22743.3887   | 145452.5925 | 27329.33585 | 38113.315   | 34885.14066 | 36062.46248 | 37221.10062 | 55130.11994 | 38181.66366 | 616064.217  | 37686.4271   | 23653.54144 | 835038.4508 | 2683991.36  | 47805.2631  |
| C8H17NO2         | 2059515.778   | 3146695.913 | 3437818.742  | 1774410.079  | 306328.815  | 806225.8071 | 1016910.207 | 138395.885   | 177349.4851 | 701406.3058 | 112757.9323 | 2563079.521 | 3176268.61   | 216542.6717 | 30328.7575  | 2038506.262 | 1918310.604 | 104203.407  | 136952.9182 | 2716536.343 | 2090975.454 | 2687881.073 | 3054685.3    | 918874.5312 | 18576.1058  | 1801497.405 |             |
| C8H17NO5         | 7971208.208   | 1292965.27  | 904032.3758  | 752600.054   | 6451134.442 | 6377581.512 | 5601424.19  | 4859755.838  | 5214667.367 | 8363362.417 | 10997075.58 | 74041.01149 | 16391867.58  | 893258.468  | 883363.6269 | 502983.1294 | 378098.588  | 805277.3922 | 7522307.162 | 884834.5559 | 7141829.952 | 2562955.515 | 4841222.285  | 2961363.628 | 6890773.928 | 4480634.195 | 531073.64   |
| C8H17NO6         | 1710446.603   | 792041.5252 | 1742770.576  | 1892784.996  | 1648043.41  | 1699090.109 | 1637526.47  | 148926.774   | 2291155.549 | 1686324.387 | 1758328.357 | 997091.145  | 1678861.156  | 686054.2528 | 1331951.104 | 1450337.574 | 510696.9483 | 1638250.535 | 2090331.315 | 1640436.346 | 1640349.918 | 717051.2128 | 1622635.553  | 203771.7614 | 1949784.286 |             |             |
| C8H18CIN6O2      | 69028.66233   | 28590.85969 | 26015.13361  | 26714.55586  | 40765.11963 | 51900.15333 | 34403.84012 | 29200.94508  | 28573.11828 | 41767.86582 | 59255.82565 | 10253.83576 | 79307.84837  | 72345.68255 | 27485.74494 | 166005.0788 | 132323.5514 | 29865.33738 | 36420.6158  | 19020.12682 | 40398.72439 | 171721.0871 | 140297.6958  | 54408.70023 | 32070.02112 | 126176.3962 | 163654.6599 |
| C8H18N2O2        | 25907.72913   | 1187995.899 | 1682467.999  | 960668.7677  | 681281.5199 | 525125.8607 | 866609.249  | 1386054.419  | 836236.4149 | 970034.4139 | 910364.9856 | 815326.6149 | 8187556.525  | 837610.9397 | 731199.0358 | 731029.038  | 67055.2197  | 93450.0296  | 790654.1408 | 735820.6829 | 790654.1408 | 735820.6829 | 790654.1408  | 735820.6829 | 790654.1408 | 735820.6829 | 790654.1408 |
| C8H18N4O2        | 4137893.366   | 3756625.116 | 3259673.349  | 3295836.819  | 3632181.689 | 2963203.107 | 3234441.531 | 3381713.573  | 257461.347  | 297796.341  | 315399.937  | 4798755.082 | 5597337.882  | 5145199.338 | 3885513.627 | 818949.287  | 808224.447  | 439268.341  | 287120.297  | 577489.145  | 4928697.668 | 297671.5044 | 423149.148   | 468636.062  | 426319.049  | 401777.195  | 5224640.297 |
| C8H18N4O4P2      | 127135.5628   | 188952.4746 | 136254.4701  | 92155.0817   | 69340.63546 | 73257.95237 | 61531.91006 | 17702.66699  | 10381.6154  | 51180.0647  | 87381.5816  | 105627.5113 | 46625.5113   | 46625.5113  | 46625.5113  | 46625.5113  | 46625.5113  | 46625.5113  | 46625.5113  | 46625.5113  | 46625.5113  | 46625.5113  | 46625.5113   | 46625.5113  | 46625.5113  | 46625.5113  | 46625.5113  |
| C8H18N10P2S5     | 174236.651    | 113327.462  | 196277.2749  | 164958.7514  | 188240.6247 | 135142.2747 | 99039.21999 | 108241.0668  | 143139.5436 | 127077.259  | 151864.9698 | 189698.1439 | 200091.7088  | 144131.8837 | 157899.6278 | 141884.3435 | 135752.5424 | 124996.4322 | 193349.5583 | 183626.2018 | 156450.2567 | 257362.6337 | 3413465.0503 | 309368.902  | 158907.3395 | 245430.6861 | 184830.7353 |
| C8H19CINcIN7O3PS | 105583.6263   | 73599.24591 | 11406.4904   | 147904.4986  | 93989.93887 | 93191.72301 | 102806.2911 | 111592.2428  | 81497.20022 | 98932.08344 | 126014.1047 | 131908.7159 | 136828.9655  | 216744.3302 | 17191.2651  | 272027.3743 | 216301.9485 | 9476.62751  | 90308.6733  | 235310.823  | 169168.0348 | 159075.3739 | 153718.466   | 173930.0277 | 171250.8427 | 102912.2806 | 133975.4579 |
| C8H19N4O3PS      | 40348.9697    | 932940.47   | 11466.8.1326 | 531416.0802  | 498768.2139 | 1057175.842 | 543654.5329 | 1106979.031  | 598797.8204 | 1032961.654 | 1032593.961 | 993515.805  | 718758.436   | 211787.545  | 1214780.344 | 382728.0266 | 404004.4132 | 525317.3189 | 1023913.475 | 1181764.555 | 707982.5492 | 20339.254   | 780097.1025  | 637003.4843 | 641808.2141 | 21455.40416 |             |
| C8H19N4O6P       | 63730.71438   | 65905.09614 | 46619.63985  | 64884.83997  | 54420.66987 | 43286.2313  | 101102.9746 | 4161.05716   | 23459.6727  | 37575.4467  | 7238.90741  | 53967.08404 | 50186.7974   | 62895.97795 | 48661.72058 | 81468.4289  | 87315.28738 | 94864.658   | 4542.45036  | 46646.89634 | 82514.85916 | 87111.77534 | 66558.70013  | 80409.60088 | 8607.18899  | 123395.9449 | 21679.6277  |
| C8H19N5O3S2      | 543425.6135</ |             |              |              |             |             |             |              |             |             |             |             |              |             |             |             |             |             |             |             |             |             |              |             |             |             |             |

|                  |             |             |             |             |             |             |             |              |             |             |             |             |              |             |             |             |              |             |              |              |             |              |             |             |             |             |             |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|--------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| C8RH04           | 176103568.3 | 31870300.59 | 39620213.89 | 76081941.46 | 97870089.88 | 35672670.03 | 82285990.07 | 53561929.26  | 21777409.58 | 20671990.24 | 84278485.61 | 5003455.195 | 6619808.147  | 8081835.283 | 10132691.57 | 9129323.217 | 5773528.33   | 7979462.39  | 3351506.29   | 17680989.27  | 11965776.48 | 5204167.923  | 6861752.611 | 60434402.07 | 12124500.01 | 68877629.07 | 100425428.1 |
| C8RH9NO4P2       | 827856.0548 | 168224.896  | 565198.0074 | 559074.0018 | 401394.37   | 790591.788  | 1359346.048 | 76367.1073   | 248347.1967 | 284311.1656 | 86364.47865 | 418117.1681 | 466360.01    | 286262.9556 | 393036.1616 | 319504.4142 | 261802.0237  | 502778.099  | 658926.232   | 134135.3511  | 308153.71   | 476518.4697  | 534715.1972 | 393487.083  | 304060.7048 | 1078311.584 | 411854.5225 |
| C8RH9N075        | 84651.94485 | 55870.68511 | 78930.30844 | 75376.11072 | 86513.27506 | 103563.1057 | 74697.60473 | 42191.7546   | 72091.8705  | 59382.88142 | 41879.30623 | 62581.1736  | 54569.09035  | 31838.27178 | 28461.24168 | 32051.34478 | 40478.18664  | 57573.56716 | 73042.17053  | 58070.81411  | 66104.59638 | 43401.10285  | 18162.04484 | 50448.88039 | 51178.40873 | 10856.71433 | 27564.20771 |
| C8RH9N307P2      | 54423.4072  | 206960.5573 | 193626.6157 | 107503.7993 | 65051.34414 | 49810.17075 | 67966.85413 | 114632.516   | 17184.08    | 107292.9066 | 14189.11166 | 16274.13966 | 236236.4342  | 90574.34896 | 17864.78577 | 28281.46651 | 37933.95139  | 196561.1805 | 15549.2609   | 23980.86153  | 124002.9628 | 175515.82801 | 14463.7358  | 19766.05198 | 42544.99528 |             |             |
| C8RH9N5035       | 267180.7172 | 202605.1574 | 217415.9579 | 243067.2655 | 217700.5393 | 159155.7807 | 174175.7502 | 204574.9971  | 154374.9558 | 182672.9854 | 164488.5976 | 197847.8325 | 30330.596    | 280881.1754 | 647229.1187 | 281681.9433 | 156569.9049  | 318405.6689 | 243776.3825  | 197364.1033  | 247660.3825 | 159509.1763  | 25660.1763  | 324640.9345 | 341409.6449 |             |             |
| C8RH106N6016P254 | 141971.8719 | 99087.39697 | 92096.68071 | 257871.8961 | 184520.7327 | 95795.35749 | 10021.16346 | 10893.64162  | 11187.88419 | 131817.0273 | 23619.58282 | 9988.079425 | 17062.581    | 10055.54888 | 27608.35272 | 109949.5507 | 9752.53259   | 9881.511779 | 16966.8083   | 11194.49661  | 9418.729027 | 9802.249317  | 11708.69998 | 9477.032472 | 41217.80093 | 21136.09614 | 11016.50447 |
| C8RH107N5011P252 | 7140.46301  | 44833.2409  | 63129.09456 | 158685.6857 | 135797.6908 | 10967.92265 | 7697.18362  | 6660.97126   | 6964.582293 | 8454.191433 | 4404.973997 | 7325.757626 | 6298.980324  | 364.369063  | 9611.72725  | 7358.355746 | 6391.619713  | 8539.143037 | 146058.5427  | 9852.012133  | 6751.033639 | 7020.777333  | 9554.196255 | 7941.108277 | 7958.196883 | 76118.9913  | 5681.94843  |
| C8RH9N018P2      | 201168.0005 | 243580.1008 | 238388.115  | 222863.1669 | 197105.3203 | 179240.5917 | 236926.1385 | 122331.089   | 255351.4833 | 222719.3851 | 223941.2145 | 157293.3491 | 37376.8768   | 96571.2038  | 33612.98896 | 152107.4094 | 236139.3971  | 141183.5229 | 204576.976   | 146042.8555  | 188465.917  | 68897.67046  | 108525.9733 | 100305.6379 | 108913.9497 | 274265.6126 | 224858.3172 |
| C9H03P3          | 62762.93844 | 96866.07322 | 113554.8158 | 78031.45736 | 76499.17072 | 90281.76353 | 225882.4005 | 41141.10235  | 38300.88055 | 56496.88084 | 24320.55561 | 85155.2067  | 81352.29434  | 7790.360647 | 57457.15344 | 32433.07779 | 30788.72385  | 35684.94409 | 22320.48352  | 20869.45614  | 40130.68132 | 36163.62935  | 40855.558   | 13860.33309 | 11393.02123 | 25775.48541 | 8276.241703 |
| C9H10CIN4P35     | 831824.8298 | 886059.4361 | 734401.9023 | 658790.1476 | 816220.6528 | 809834.6345 | 777621.8844 | 885090.7303  | 724779.1929 | 822478.4062 | 868643.396  | 1186425.335 | 1335267.5    | 1192884.209 | 694233.7699 | 874807.8823 | 742666.7847  | 785380.3565 | 836158.6574  | 706607.0689  | 768997.5134 | 589527.7442  | 971764.3121 | 729003.1589 | 853922.6959 | 861256.2906 | 829075.0467 |
| C9H10N6O2        | 3763555.218 | 810378.4431 | 3768351.865 | 2985232.616 | 3650044.6   | 3885284.481 | 4085316.027 | 3317562.63   | 3743354.328 | 4181750.517 | 3118182.52  | 2470666.651 | 2749151.034  | 3722857.614 | 3748063.125 | 1501835.436 | 3223028.775  | 1369493.416 | 258520.8943  | 4430438.298  | 4165358.727 | 3224821.031  | 507204.8515 | 3554153.299 | 2847805.606 | 2365176.644 | 3353495.829 |
| C9H11C1O2P2      | 2206488.818 | 2109510.626 | 1730004.768 | 1759809.572 | 2214921.158 | 1609941.546 | 1832266.865 | 1943926.248  | 1572391.742 | 2224256.981 | 1979066.162 | 1954081.831 | 2026474.411  | 2110639.752 | 3479204.633 | 1519130.124 | 1238077.746  | 2999636.895 | 2096248.081  | 2612380.073  | 1905404.708 | 1289402.134  | 1428749.578 | 1375066.978 | 1845600.583 | 987020.3147 | 1158039.17  |
| C9H11C1O2P2      | 196338.9491 | 411711.03   | 92064.79749 | 377432.3772 | 160561.4996 | 122504.9217 | 69749.90407 | 128677.1008  | 85507.91087 | 92308.32307 | 71681.88278 | 610587.7741 | 167750.7823  | 26751.41485 | 260271.2672 | 59665.52322 | 71362.33702  | 37565.38631 | 30249.39081  | 147488.1864  | 209922.7049 | 205676.69    | 16236.11361 | 110452.4089 | 333329.8944 | 69662.89333 | 322476.811  |
| C9H11C1O3H45     | 849719.504  | 818051.1737 | 738656.2333 | 750737.6073 | 768432.3438 | 743782.8919 | 675800.3267 | 675477.4055  | 755443.6571 | 735025.9609 | 705356.5692 | 818484.1966 | 836929.1324  | 825595.2389 | 113850.166  | 593660.5575 | 522170.5334  | 1173970.109 | 701978.0003  | 920388.5052  | 768685.4948 | 480392.4238  | 613334.8474 | 522179.2896 | 791301.2335 | 396620.1503 | 378000.093  |
| C9H11C1O3O755    | 881495.2052 | 1032221.594 | 791179.2611 | 817585.6505 | 882283.3387 | 746542.8955 | 876372.2285 | 949059.5567  | 985819.8718 | 899664.6809 | 837555.9849 | 879386.257  | 1028997.129  | 1043854.291 | 1449425.862 | 623890.706  | 522319.9082  | 192748.194  | 811986.4252  | 1013608.738  | 951819.1062 | 633075.0984  | 727627.5988 | 563423.2525 | 889636.7429 | 437810.1125 | 400427.7232 |
| C9H11N02         | 127934762   | 355857719.8 | 336262547.5 | 332017898.1 | 314949628   | 288326997   | 328315601.7 | 307893371.8  | 365673352.1 | 373044765.4 | 326345954.9 | 250643292.8 | 353070311.3  | 352380721.8 | 411380781.1 | 45583745.1  | 340438094    | 385179326.5 | 443976825.6  | 404415881.1  | 369408367.5 | 381249426.4  | 468126797   | 435882242.2 | 350789040.4 | 238991219.7 | 35278874.7  |
| C9H11N02         | 280644639.3 | 3107451.933 | 35446971.53 | 359472786.3 | 336018203.2 | 283154672.6 | 345651373.2 | 2485848963.1 | 389251789.5 | 326669221.5 | 295306154.6 | 253871.060  | 322274066.1  | 323777430.8 | 37656037    | 443476453.6 | 393496962.1  | 379603461.3 | 490501316    | 661016551.5  | 342784303.3 | 329972755.8  | 493410941.3 | 64327055.8  | 351972004.9 | 141516357.1 | 349404552.5 |
| C9H11N065        | 383117.0737 | 335242.1974 | 573784.6738 | 345264.7359 | 379769.4257 | 315430.1744 | 387082.777  | 400308.8133  | 26172.7369  | 408809.9662 | 494811.641  | 702409.0149 | 788902.5084  | 508656.459  | 306569.021  | 1147340.064 | 3646423.2233 | 242351.2214 | 532273.8233  | 436113.858   | 371614.1167 | 72536.446    | 714305.8864 | 641218.0132 |             |             |             |
| C9H11N065        | 389113.9045 | 311271.0838 | 350842.4166 | 232602.9181 | 30442.6144  | 246656.5578 | 274327.6428 | 342500.1345  | 196303.0462 | 288190.4236 | 221781.361  | 400600.7078 | 455039.6732  | 372722.3842 | 411368.033  | 930839.8739 | 82178.5878   | 370162.1236 | 233000.8848  | 490037.507   | 361245.3871 | 212222.542   | 385470.1841 | 373098.1614 | 352742.2769 | 567127.8886 | 510785.247  |
| C9H11N075        | 2067445.892 | 1626707.037 | 685043.2599 | 895043.103  | 1113329.557 | 1567920.395 | 1522275.818 | 1328361.37   | 182621.782  | 166480.182  | 164486.526  | 1846245.545 | 1851320.626  | 1593480.818 | 157943.1093 | 3106134.107 | 1010608.518  | 15405.55442 | 1602347.43   | 403217.724   | 1940009.488 | 1653132.029  | 1475782.678 | 929742.838  | 929428.968  | 900638.5914 |             |
| C9H11N5035       | 122521.6919 | 5778093.827 | 1109657.37  | 12847251.39 | 12569732.57 | 12350217.54 | 9489582.648 | 10328460.52  | 1140096.73  | 13708935.94 | 14405034.54 | 8237611.847 | 7814937.092  | 10999633.23 | 605651.474  | 19050042.29 | 5462231.29   | 3819189.76  | 1258273.677  | 1023776.77   | 9025388.634 | 7092278.391  | 13021657.02 | 1267265.46  | 13978284.8  | 1369662.61  |             |
| C9H11N70S2       | 2277416.819 | 1141524.727 | 126671.968  | 1092476.869 | 1362368.783 | 5110495.753 | 1569136.55  | 1569136.55   | 1607368.684 | 1347252.205 | 1109273.566 | 1445981.21  | 82931.9335   | 104760.307  | 152714.4697 | 1406210.838 | 102728.202   | 584784.831  | 2800622.92   | 156110.18361 | 450539.7272 | 502742.649   | 768218.038  | 589017.5974 | 729189.5944 | 702355.1711 |             |
| C9H12C1N507P     | 63830.5432  | 447638.3794 | 768316.4659 | 572618.968  | 575268.7469 | 419056.1309 | 52173.4553  | 52766.5894   | 446074.7888 | 69064.18144 | 659937.0031 | 255009.7471 | 355345.791   | 41355.8987  | 41819.0758  | 368067.341  | 314246.3864  | 411169.3462 | 3831158.6108 | 627024.0388  | 431658.8578 | 286718.3259  | 394024.062  | 525524.554  | 333653.246  | 288625.6325 |             |
| C9H12N06         | 299470.551  | 260655.6782 | 358265.667  | 267187.41   | 260563.7188 | 221201.3506 | 20270.7356  | 223596.094   | 281538.0595 | 215652.2764 | 421720.8365 | 741264.8822 | 443747.0229  | 323104.345  | 1811469.066 | 1973929.251 | 337994.2513  | 30149.8431  | 318343.6945  | 225736.2852  | 404593.5483 | 299407.1304  | 47149.6578  | 965784.0054 | 2173.1768   | 76811.638   |             |
| C9H12N206        | 846505.7255 | 677874.1225 | 622347.1992 | 612083.0051 | 572236.1306 | 448166.784  | 543175.1924 | 543900.6836  | 471525.5145 | 531615.3362 | 488402.0628 | 591925.8281 | 1079696.134  | 942030.2128 | 793945.9318 | 2272997.456 | 2156584.108  | 66472.304   | 483704.6941  | 13020.0825   | 585678.0128 | 572172.9493  | 800795.5175 | 555529.0424 | 677026.2748 | 138939.42   | 1562528.832 |
| C9H12N206        | 1104360.341 | 971226.4412 | 1121476.21  | 1039693.805 | 937177.4601 | 1297992.8   | 976451.457  | 1133282.642  | 679112.9102 | 1623382.978 | 1048398.634 | 1203348.043 | 1625551.3381 | 794815.5527 | 584498.4755 | 602282.3426 | 1165740.729  | 520832.516  | 103517.456   | 1600847.189  | 1790533.105 | 159819.1108  | 919725.089  | 996980.4986 | 113531.713  |             |             |
| C9H12N206        | 901743.5333 | 1587136.483 | 1308161.731 | 889577.8094 | 1213625.882 | 904609.907  | 1301514.236 | 806014.3797  | 121555.2513 | 151458.258  | 1771648.27  | 745357.7403 | 962454.1805  | 1245991.67  | 1591074.68  | 500452.9196 | 712041.158   | 1304207.561 | 56503.6382   | 1572728.048  | 1260184.806 | 1150366.042  | 181187.698  | 1610294.678 | 36737.1388  | 1225907.485 | 1229800.787 |
| C9H12N402        | 88343.0993  | 28930.01662 | 7189.38484  | 31307.24511 | 26751.35406 | 24416.76645 | 235919.8124 | 221164.1795  | 105071.3131 | 24743.0955  | 15809.1195  | 763577.1089 | 709251.6809  | 751702.4472 | 286770.605  | 218907.5208 | 298190.2627  | 150036.6940 | 85960.8853   | 711033.2106  | 513385.8214 | 121166.055   | 132019.9555 | 522738.992  | 11511.4353  | 126662.500  | 460523.5583 |
| C9H12N402        | 49657.94475 | 51459.07673 | 47626.36354 | 68581.85129 | 45282.5700  | 48320.7309  | 41925.19021 |              |             |             |             |             |              |             |             |             |              |             |              |              |             |              |             |             |             |             |             |

|                |             |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |             |             |             |             |
|----------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|
| C9H22CIN04P2S  | 796951.7871 | 1051917.486  | 811406.2222 | 711150.5887 | 538140.8104 | 444523.0633 | 536319.5701 | 529264.149  | 539976.1848 | 871447.7224 | 999128.4814 | 662316.2947 | 1980290.548 | 1071403.174 | 1068680.103 | 419193.3844 | 224107.2655 | 836891.0986 | 705988.4138 | 936626.3858 | 617359.6958 | 129795.278  | 389980.8799  | 303922.7601 | 620885.6687 | 454237.368  | 457220.9035 |
| C9H22CIN0413S  | 327382.8526 | 245375.3349  | 226300.762  | 214128.6329 | 317961.6072 | 138836.4622 | 188046.8821 | 164673.117  | 141127.7667 | 121924.1071 | 180485.2811 | 414708.8872 | 355115.6227 | 212039.0289 | 193364.9588 | 86990.10673 | 98111.39788 | 169832.1554 | 875763.6842 | 693668.8775 | 18561.45853 | 58084.84154 | 84593.44821  | 114320.4822 | 62320.78118 | 79075.83207 |             |
| C9H22N9N02P    | 6866143.529 | 5467929.175  | 3521298.632 | 6645663.305 | 7258722.825 | 1333905.752 | 4543346.217 | 7374064.659 | 7068525.798 | 4586603.149 | 2478849.691 | 6063094.479 | 4993797.475 | 4881877.478 | 6535850.748 | 5851183.923 | 6879716.48  | 4389208.611 | 4054986.281 | 5145441.442 | 5784283.622 | 5305234.824 | 3362174.206  | 6679239.162 | 5011823.951 | 4753516.711 | 5171712.012 |
| C9H22N9P       | 3818820.16  | 2928086.23   | 3023169.606 | 7278672.563 | 2383664.345 | 5803682.806 | 3292896.117 | 4173599.784 | 8940623.583 | 6183146.301 | 5261471.752 | 3669587.689 | 4810952.401 | 5033527.271 | 7326481.955 | 6574638.426 | 5971077.07  | 5489017.77  | 4190256.876 | 5548642.547 | 2456172.029 | 7449783.266 | 5811109.77   | 5169592.835 | 6091647.533 | 1984528.988 | 5777503.605 |
| C9H23CIN2O5P2  | 63805.24715 | 13251.58882  | 91950.48839 | 149366.608  | 38553.83574 | 56374.73808 | 44649.98463 | 51406.83238 | 85640.57476 | 65535.67369 | 110919.7662 | 81464.82825 | 45957.06036 | 81594.06629 | 12463.8944  | 20972.75083 | 22533.26688 | 11353.67281 | 132209.1971 | 97236.58578 | 79910.73976 | 85802.27813 | 32371.22007  | 74342.09325 | 40299.57685 | 103470.8519 | 151297.8328 |
| C9H23N3O7      | 41838.38025 | 39463.56147  | 79866.61581 | 47402.07996 | 65686.69264 | 46802.59253 | 100566.912  | 29281.64041 | 85380.71327 | 73767.81436 | 38955.60695 | 27236.18917 | 39273.10232 | 56457.61682 | 78426.98621 | 68346.44201 | 79268.44201 | 40600.22425 | 43439.04504 | 57340.70059 | 27682.07137 | 39216.35859 | 94267.03654  | 44660.11572 | 76836.88198 | 456886.6549 | 502011.1342 |
| C9H24N011P3    | 8779.916252 | 9436.135766  | 77148.66937 | 5800.783741 | 58738.98114 | 6986.441742 | 56048.50047 | 13513.79512 | 84398.03072 | 61867.68866 | 43962.62142 | 6927.361772 | 7550.546367 | 43523.84697 | 8804.702249 | 46510.7459  | 6468.729325 | 6317.454688 | 6436.811053 | 6329.103963 | 6397.288431 | 6293.160073 | 9003.148723  | 6998.843139 | 10701.7044  | 88671.01683 | 6736.599249 |
| C9H24N01004    | 123138.9339 | 232448.4591  | 101336.246  | 148270.2329 | 146936.7366 | 166361.5547 | 125366.4446 | 73765.79219 | 179412.3584 | 89565.95607 | 79192.12414 | 136904.7588 | 96843.04296 | 86633.50959 | 94465.32371 | 80664.7425  | 70784.8396  | 263226.8439 | 76086.35262 | 97837.01444 | 90093.66974 | 99900.7558  | 112610.2978  | 87492.60434 | 111233.4293 | 97569.89161 | 80185.98512 |
| C9H24N04O3P2   | 53575.99588 | 50119.48524  | 431597.3239 | 49934.61879 | 49818.68807 | 436326.7418 | 427560.4272 | 45567.59873 | 42574.31963 | 39220.30895 | 379476.0063 | 63224.52295 | 52321.52339 | 48239.67374 | 60329.30267 | 288523.8681 | 62414.33036 | 84891.26432 | 40702.62484 | 37872.77444 | 52467.03011 | 2948360.476 | 117836.702   | 824650.1723 | 41548.33574 | 42717.48781 | 42039.00962 |
| C9H24N6O5P2    | 10917.04329 | 12924.49954  | 11882.00885 | 17670.83274 | 28334.75182 | 13545.87817 | 12625.16423 | 10873.70345 | 11601.28037 | 13822.45141 | 11046.21384 | 25588.52653 | 12574.62208 | 12189.79634 | 10101.33466 | 25014.62962 | 141046.5815 | 12048.00365 | 10284.45645 | 114887.2834 | 11529.9297  | 12084.52675 | 10946.06881  | 9718.515617 | 11492.01955 | 10846.05258 | 11092.89198 |
| C9H24N9P3S     | 8691.788174 | 8015.398516  | 8773.795351 | 9162.958642 | 9770.412436 | 8260.118385 | 10692.73227 | 8192.969718 | 8208.107706 | 8544.286113 | 56198.2324  | 11063.83511 | 159031.8938 | 149042.1046 | 10251.46357 | 7079.088335 | 58079.36641 | 79826.34545 | 7495.223694 | 8475.206448 | 9064.549522 | 78954.06205 | 80714.38054  | 91035.76873 | 9750.253413 | 166803.0793 | 8267.217471 |
| C9H25CIN8N0P3  | 372002.6221 | 1370701.0377 | 434076.8818 | 469285.0613 | 532263.3863 | 405817.5869 | 377433.4581 | 376699.054  | 356575.3723 | 411059.4184 | 255093.5029 | 615484.4226 | 235620.6614 | 456763.689  | 186733.5925 | 157694.5854 | 242204.3351 | 115543.0822 | 171444.7494 | 587814.3531 | 479373.1787 | 461147.1844 | 341345.0834  | 474408.8311 | 287320.4427 | 129758.1874 | 130858.5874 |
| C9H26N5O2P3S2  | 497808.3891 | 243527.0344  | 530817.4171 | 653223.6445 | 232750.6997 | 658850.6973 | 616005.1166 | 578262.5192 | 49773.1199  | 622009.8966 | 503693.2403 | 233601.9064 | 482597.9659 | 942951.7034 | 363433.0262 | 428210.1764 | 289153.4276 | 263386.0836 | 721844.9378 | 778131.132  | 258423.9516 | 373531.2997 | 338195.8936  | 560038.4786 | 299396.1042 | 96313.68546 | 298125.7324 |
| C9H26N6O4S     | 244377.0073 | 593559.3741  | 534350.9517 | 632232.5725 | 769453.2487 | 694779.1415 | 592131.5178 | 610502.1603 | 490018.8869 | 530648.4009 | 470054.7888 | 437577.9479 | 372160.3785 | 354568.1295 | 659592.1894 | 837445.2221 | 522332.9603 | 368466.9272 | 478069.6606 | 592579.7869 | 1315137.955 | 454898.1337 | 659996.6641  | 470885.1487 | 418160.8098 | 244046.0995 | 581996.3241 |
| C9H28N6O4P2    | 89852.51302 | 71492.37248  | 109132.7682 | 163806.7356 | 149479.2349 | 123418.8516 | 143152.8364 | 78151.15433 | 96815.89478 | 88819.25186 | 115706.0309 | 145697.0896 | 59856.54642 | 112251.928  | 98244.21882 | 77559.02177 | 39206.30701 | 100846.5416 | 92325.63169 | 45061.24277 | 115748.2024 | 125028.4202 | 93975.353    | 99419.04847 | 119100.991  | 133848.6367 | 115994.4582 |
| C9H3CIN2O7P2S2 | 78570.62304 | 95486.12911  | 48262.48075 | 120091.7413 | 90759.49208 | 52349.24708 | 49509.56989 | 66853.27756 | 131375.4425 | 114863.1788 | 85275.40529 | 181266.7262 | 265347.6544 | 292910.399  | 378821.8303 | 343163.6493 | 235632.8691 | 319812.7983 | 83779.89358 | 236759.5704 | 186921.789  | 433088.266  | 705359.7018  | 245006.1795 | 304817.8673 | 188931.1716 | 119651.8124 |
| C9H3N0S82      | 2491954.53  | 397243.8653  | 260806.021  | 1818890.53  | 3200778.217 | 44861.73285 | 2140928.682 | 1257947.857 | 680149.9673 | 1349073.164 | 8562680.888 | 471096.5473 | 762991.8195 | 1237278.843 | 877908.1604 | 2884945.216 | 203373.155  | 1062144.102 | 2130357.537 | 384035.0766 | 51807.05614 | 544002.7845 | 911078.1579  | 494330.6943 | 156003.5435 | 619600.7802 | 901654.1904 |
| C9H3N2O4P      | 1880719.039 | 1788028.327  | 2128037.452 | 1406444.391 | 899975.8237 | 880229.9286 | 1401668.951 | 1189102.066 | 1946093.367 | 1815363.469 | 2078037.295 | 2369848.828 | 2339281.637 | 1925222.476 | 2683872.172 | 1811371.738 | 1783846.553 | 2568966.938 | 1617099.984 | 2083601.946 | 1972063.916 | 1625863.34  | 1764248.157  | 2567008.839 | 2032322.881 | 1173381.959 | 1155160.907 |
| C9H4N4O4P2S2   | 450917.5884 | 627485.4135  | 439947.6555 | 572333.2491 | 507515.8176 | 623195.5912 | 531910.9416 | 584322.8952 | 466738.7542 | 472230.1656 | 629134.4355 | 534536.6189 | 544371.4923 | 551041.2348 | 407672.1861 | 520866.2603 | 643644.1041 | 472929.3216 | 498476.4336 | 439445.6581 | 524708.1971 | 582718.6701 | 530868.2852  | 521574.5371 | 462137.9944 | 524125.4748 | 582198.2534 |
| C9H4N04O4S     | 15403.65135 | 14947.67478  | 14643.96257 | 14915.55892 | 14512.47678 | 14835.1442  | 14632.66158 | 15055.44743 | 20150.58456 | 73670.68254 | 15789.01722 | 14589.21568 | 16868.43932 | 15745.83033 | 17124.04809 | 24182.946   | 1333817.693 | 15075.58628 | 14592.55272 | 14066.40731 | 16056.29451 | 14604.1184  | 15486.07989  | 14714.31239 | 20533.44268 | 63497.5726  | 15703.00947 |
| C9H6CIN8N0P3   | 81389.35487 | 48015.70661  | 89184.47973 | 86522.6729  | 28511.02937 | 54237.11667 | 71179.41317 | 58498.79531 | 73410.2258  | 35423.72912 | 68498.5107  | 28576.24038 | 10394.67733 | 84940.82008 | 56424.38676 | 136091.457  | 178179.8346 | 100974.6368 | 185556.2997 | 87076.55386 | 59713.95313 | 154380.0517 | 493941.4639  | 96978.3803  | 201100.4377 | 81508.03562 | 84999.02716 |
| C9H6N8N0P2     | 322096.4907 | 11452.74794  | 12082.97687 | 260281.5095 | 195452.4215 | 168327.0714 | 71359.80752 | 93905.27903 | 14403.21339 | 282021.5858 | 332206.2566 | 14038.01854 | 90907.52723 | 243463.4905 | 300423.0771 | 222730.951  | 42423.89217 | 244992.2132 | 265778.4065 | 300472.1597 | 13969.05325 | 339773.5842 | 411373.5945  | 197376.1454 | 14869.74661 | 202605.5442 | 50746.58165 |
| C9H6O16P2S     | 348179.6752 | 346980.8658  | 377787.1082 | 367952.6    | 342032.1313 | 361651.4064 | 338172.1637 | 309916.6138 | 347226.397  | 443371.4021 | 411058.2599 | 362833.3735 | 402275.6451 | 435704.2862 | 404605.4619 | 367951.1615 | 344008.238  | 401706.2081 | 351332.7969 | 536230.2121 | 370273.0826 | 433933.4439 | 3323283.5931 | 340538.7187 | 305432.1289 | 382577.5028 | 343650.6708 |
| C9H7N04P2S     | 474849.5839 | 84494.77883  | 806569.2704 | 4942365.94  | 863832.1093 | 79256.66159 | 544555.8586 | 299343.2755 | 169657.4608 | 263264.7721 | 2353656.875 | 106749.4721 | 150548.2792 | 271742.5061 | 221592.2817 | 748067.7436 | 113796.6071 | 219984.4869 | 604386.1973 | 569401.7756 | 54511.8149  | 96629.65224 | 176174.6813  | 62479.37252 | 50184.49602 | 156809.4257 | 229671.767  |
| C9H7N3O10P2S   | 774950.1181 | 78980.48389  | 430770.8049 | 323920.621  | 319049.698  | 209192.3125 | 371969.8875 | 484945.7012 | 555326.213  | 543303.5923 | 434189.987  | 152443.5213 | 622192.9427 | 492888.8396 | 724629.5935 | 560696.6616 | 355390.2979 | 619108.7482 | 658332.0065 | 488089.6187 | 328211.4258 | 846337.4671 | 981287.4634  | 727134.4828 | 435597.8975 | 347627.8926 | 488625.3037 |
| C9H7N4P        | 372466.2737 | 59508.36282  | 356178.7407 | 304412.134  | 420761.0994 | 322738.0145 | 370418.9269 | 236832.494  | 83642.14523 | 392282.1494 | 211216.0849 | 369348.232  | 470794.7612 | 464495.794  | 220701.9347 | 131698.9172 | 131700.7945 | 203452.3361 | 273692.4627 | 262489.9073 | 234014.4047 | 224185.9799 | 288804.4013  | 322232.8559 | 394067.9383 | 32779.94462 | 44343.90364 |
| C9H8CIN014P3S5 | 390515.3477 | 510461.2344  | 394174.7427 | 419500.0607 | 387054.0591 | 374422.1228 | 375779.2518 | 544597.3698 | 373844.7878 | 636234.9911 | 513448.3936 | 873984.5638 | 988972.949  | 946170.5443 | 519728.9873 | 497457.34   | 430693.2595 | 393565.1482 | 612900.0564 | 468603.9721 | 430392.8707 | 479979.7273 | 719839.1083  | 476964.2223 | 517423.9563 | 477752.0393 | 422728.1844 |
| C9H8N4         | 46536.20689 | 59720.54338  | 61464.71659 | 53724.88787 | 163240.0672 | 127646.4545 | 93356.97257 | 395495.4741 | 293264.3242 | 48931.58199 | 198864.3194 | 1444043.62  | 268797.6924 | 561440.7873 | 285723.893  | 137818.8806 | 2           |             |             |             |             |             |              |             |             |             |             |