

CAESAR QSAR model for bioconcentration factor (BCF) in fish - version 1.0.0.11

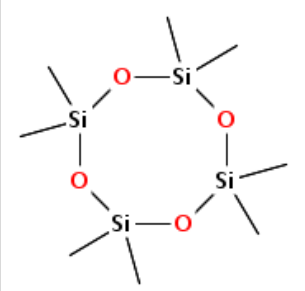
The use of CAESAR models is regulated as in the license description available at the website.

More information on the CAESAR BCF model is available at the website.

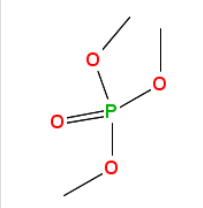
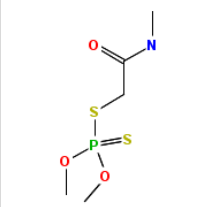
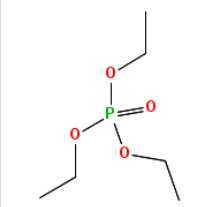
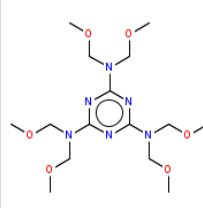
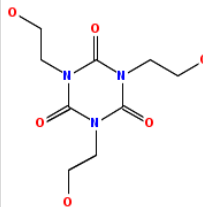
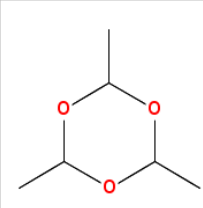
<http://www.caesar-project.eu>

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Prediction for the compound no. 1: C[Si]1(C)O[Si](C)(C)O[Si](C)(C)O[Si](C)(C)O1

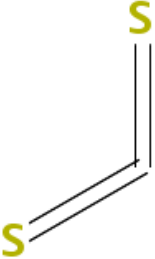
	BCF value: 3 (L/Kg) whole body weight Log BCF value: 0.47 Remarks for the prediction: Presence of chemical features in the compound (Si atom in the molecule) that might be associated with a lower reliability of the predicted value.
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The following chemicals similar to the query compound have been identified in the CAESAR database:

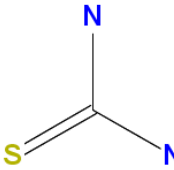
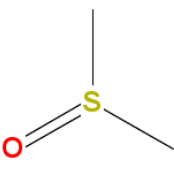
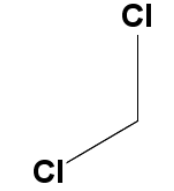
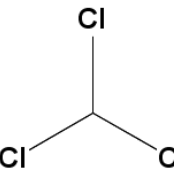
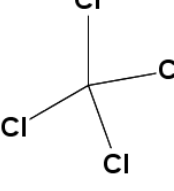
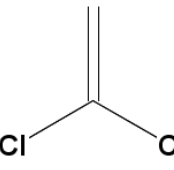
	Dataset id: 406 SMILES: <chem>O=P(OC)(OC)OC</chem> Similarity: 0.412 Experimental Log BCF: -0.52 Predicted Log BCF: 0.02
	Dataset id: 464 SMILES: <chem>S=P(SCC(=O)NC)(OC)OC</chem> Similarity: 0.404 Experimental Log BCF: -0.26 Predicted Log BCF: 0.09
	Dataset id: 404 SMILES: <chem>O=P(OCC)(OCC)OCC</chem> Similarity: 0.386 Experimental Log BCF: -0.21 Predicted Log BCF: 0.58
	Dataset id: 442 SMILES: <chem>COCN(c1nc(nc(n1)N(COC)COC)N(COC)COC)COC</chem> Similarity: 0.374 Experimental Log BCF: 0.28 Predicted Log BCF: 0.12
	Dataset id: 444 SMILES: <chem>O=C1N(C(=O)N(C(=O)N1CCO)CCO)CCO</chem> Similarity: 0.374 Experimental Log BCF: 0.20 Predicted Log BCF: 0.25
	Dataset id: 462 SMILES: <chem>CC1OC(OC(O1)C)C</chem> Similarity: 0.372 Experimental Log BCF: -0.52 Predicted Log BCF: 0.25

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Prediction for the compound no. 2: S=C=S

	BCF value: 2 (L/Kg) whole body weight Log BCF value: 0.24 Remarks for the prediction: Descriptors for this compound have values outside the descriptor range for the compounds of the training set.
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The following chemicals similar to the query compound have been identified in the CAESAR database:

	Dataset id: 399 SMILES: NC(=S)N Similarity: 0.348 Experimental Log BCF: 0.30 Predicted Log BCF: 0.46
	Dataset id: 398 SMILES: CS(=O)C Similarity: 0.297 Experimental Log BCF: 0.60 Predicted Log BCF: 0.12
	Dataset id: 240 SMILES: ClCCl Similarity: 0.29 Experimental Log BCF: 1.37 Predicted Log BCF: 0.57
	Dataset id: 241 SMILES: ClC(Cl)Cl Similarity: 0.286 Experimental Log BCF: 0.93 Predicted Log BCF: 0.61
	Dataset id: 242 SMILES: ClC(Cl)(Cl)Cl Similarity: 0.283 Experimental Log BCF: 0.87 Predicted Log BCF: 0.61
	Dataset id: 259 SMILES: C=C(Cl)Cl Similarity: 0.279 Experimental Log BCF: 0.95 Predicted Log BCF: 0.51