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Solution

GRADE 30 Solution.rmrsln

15MK GRADE 30_20230804_130032_G01_S01_M01-Evaluati report (15MK GRADE 30_20230804_130032_G01_S01_M01)



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General information

Analysis date	2023-08-04 14:34:44	Measurement start time	2023-08-04 13:01:43
Analyst	Administrator	Operator	Administrator
Sample name	15MK GRADE 30	Comment	
Measured data name	C:\Users\Rigaku pc\Desktop\ANALYSIS\OGA\04-08-2023\15...	Memo	

Peak list

No.	2 θ , °	d, Å	Height, cps	FWHM, °	Int. I., cps°	Int. W., °	Asymmetry	Decay(η L/mL)	Decay(η H/mH)	Size, Å
1	18.065(19)	4.906(5)	515(60)	0.08(4)	72(10)	0.14(4)	1.0(10)	0.4(9)	1.5(7)	1013(437)
2	20.951(14)	4.237(3)	761(90)	0.08(3)	102(12)	0.13(3)	1.3(10)	1.5(5)	0.0(9)	1031(324)
3	26.763(8)	3.3284(10)	2576(152)	0.168(8)	479(17)	0.186(18)	4.0(13)	0.00(11)	0.5(4)	507(25)
4	27.99(3)	3.186(3)	332(43)	0.48(5)	178(15)	0.54(12)	4.0(13)	0.00(11)	0.5(4)	176(17)
5	29.514(8)	3.0241(8)	820(84)	0.11(3)	155(14)	0.19(4)	0.5(4)	1.5(3)	0.8(4)	748(175)
6	39.56(6)	2.276(3)	231(36)	0.14(7)	38(13)	0.17(8)	1(2)	0.6(15)	0(2)	633(316)
7	50.27(2)	1.8137(8)	688(82)	0.12(3)	131(13)	0.19(4)	2(3)	1.0(5)	1.2(11)	776(210)
8	60.00(3)	1.5407(6)	316(47)	0.09(4)	45(10)	0.14(5)	2(4)	0.9(13)	1.5(11)	1115(569)

No.	2 θ , °	Phase Name	Chemical Formula	Card No	Norm. I.	Profile Type	Distributi...	Degree of Orientation
1	18.065(19)	Unknown			15.02	Split pseudo-Voigt	-	-
2	20.951(14)	Quartz, syn: 1 0 0,Sanidine: 2 0...	Si O ₂ ,K (Al Si ₃ O ₈ ...	01-087-2096,01-07...	21.39	Split pseudo-Voigt	-	-
3	26.763(8)	Quartz, syn: 0 1 1,Sanidine: 2 2 0	Si O ₂ ,K (Al Si ₃ O ₈)	01-087-2096,01-07...	100.00	Split pseudo-Voigt	-	-
4	27.99(3)	Unknown			37.12	Split pseudo-Voigt	-	-
5	29.514(8)	Sanidine: 1 3 1,Muscovite: 0 2 5	K (Al Si ₃ O ₈),H ₂ K...	01-071-1544,00-00...	32.47	Split pseudo-Voigt	-	-
6	39.56(6)	Quartz, syn: 1 0 2,Sanidine: 3 3...	Si O ₂ ,K (Al Si ₃ O ₈ ...	01-087-2096,01-07...	8.04	Split pseudo-Voigt	-	-
7	50.27(2)	Quartz, syn: 1 1 2,Sanidine: 0 6...	Si O ₂ ,K (Al Si ₃ O ₈ ...	01-087-2096,01-07...	27.26	Split pseudo-Voigt	-	-
8	60.00(3)	Sanidine: 0 6 3	K (Al Si ₃ O ₈)	01-071-1544	9.36	Split pseudo-Voigt	-	-



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Phase name	Formula	Figure of merit	Phase reg. detail	Space Group	DB Card Number
Quartz, syn	Si O ₂	0.991	S/M(PDF-4 Minerals 2021)	154 : P3221	01-087-2096
Sanidine	K (Al Si ₃ O ₈)	2.949	Import(PDF-4 Minerals 2021)	12 : C12/m1	01-071-1544
Orthoclase	Al ₂ O ₃ · K ₂ O · 6 Si O ₂	3.077	Import(PDF-4 Minerals 2021)	12 : C12/m1	00-002-0475
Albite	Na Al Si ₃ O ₈	3.169	Import(PDF-4 Minerals 2021)	2 : P-1	00-003-0451
Muscovite	H ₂ K Al ₃ (Si O ₄) ₃	3.248	Import(PDF-4 Minerals 2021)	15 : C12/c1	00-001-1098
Osumilite	K - Na - Ca - Mg - Fe - Al - S...	3.307	Import(PDF-4 Minerals 2021)	192 : P6/mcc	00-010-0413

No.	2θ, °	Ring Factor	β Cluster
1	18.065(19)	-	-
2	20.951(14)	-	-
3	26.763(8)	-	-
4	27.99(3)	-	-
5	29.514(8)	-	-
6	39.56(6)	-	-
7	50.27(2)	-	-
8	60.00(3)	-	-

Qualitative Analysis Results



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Phase Data View

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