

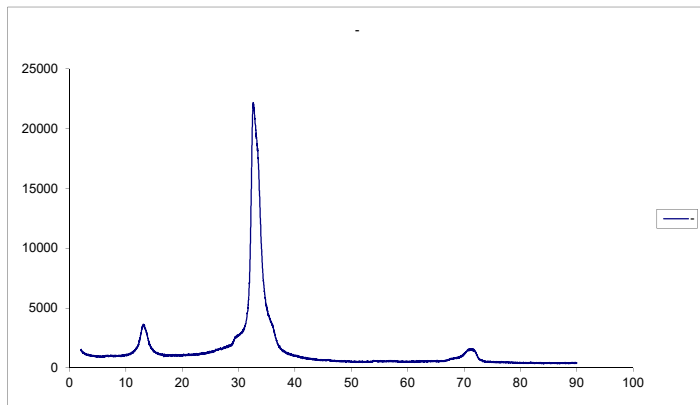
RGO - Su

Peak Search Report (4 Peaks, Max P/N = 58.8)

[RGO.raw] RGO - Su

PEAK: 47-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-Top=Summit

2-Theta	d(A)	BG	Height	H%	Area	A%	FWHM
2.08	13.1	8.4864	1969	1684	9.6	88074	7.8
2.1	1547	32.6	3.449	4671	17503	100	1133431
2.12	1396	53.987	2.1327	529	96	0.5	1505
2.14	1456	71.78	1.6513	726	792	4.5	25651



Start angle 2
 Stop angle 90
 Step 0.02
 Scan speed 0.4 step/min
 30 kV
 15 mA

X ray beam type K alpha 1

PDF#01-089-8487; QM=Calculated; d=Calculated; I=(Unknown)
 Graphite pdf 01-089-8487
 C
 Radiation=CuKa1 Lambda=1.5406 Filter=
 Calibration= 2T=33.550-119.960 I/Ic(RIR)=2.33
 Ref: Level-1 PDF

Hexagonal, P63mc (186) Z=4 mp=
 CELL: 2.461 x 2.461 x 6.708 <90.0 x 9 P.S=
 Density(c)=2.267 Density(m)= Mwt= Vol=35.2
 Ref: Ibid.

Strong Lines: 3.35/X 2.03/1 1.68/1

2-Theta	d(A)	I(f)	(h k l)	Theta	1/(2d)	2pi/d	n^2
3.2	33.55	3.354	100 (0 0 2)	16.775	0.1491	1.8733	
3.22	54.026	2.1313	3 (1 0 0)	27.013	0.2346	2.9481	
3.24	56.923	2.0312	14.3 (1 0 1)	28.462	0.2462	3.0933	
3.26	65.114	1.7988	2.7 (1 0 2)	32.557	0.278	3.4929	
3.28	70.512	1.677	5 (0 0 4)	35.256	0.2982	3.7467	
3.3	77.727	1.5427	3.7 (1 0 3)	38.864	0.3241	4.0727	
3.32	94.53	1.3179	0.6 (1 0 4)	47.265	0.3794	4.7675	
3.34	103.754	1.2305	3.2 (1 1 0)	51.877	0.4063	5.1062	
3.36	113.851	1.1552	4.9 (1 1 2)	56.925	0.4328	5.439	
3.38	116.99	1.1354	0.8 (1 0 5)	58.495	0.4404	5.534	
3.4	119.96	1.118	0.7 (0 0 6)	59.98	0.4472	5.62	

PDF#00-033-1858; QM=Common(+); d=Diffractionmeter; I=(Unknown)
 1,4-dihydroxyanthraquinone
 C14H8O4
 Radiation=Lambda=1 Filter=
 Calibration 2T=13.379 I/Ic(RIR)=
 Ref: Level-1 PDF

Monoclinic Z=4 mp=
 CELL: 16.4 P.S=
 Density(c)=Density(m)/Mwt= Vol=1047.8
 Ref: Ibid.

Strong Lines: 8.31/X 3.48/4 4.88/2 3.11/2 3.88/1 4.26/1 5.67/1 5.22/1

2-Theta	d(A)	I(f)	(h k l)	Theta	1/(2d)	2pi/d	n^2
13.379	8.31	100 (2 0 0)	6.689	0.0602	0.7561		
19.66	5.67	8 (1 1 0)	9.83	0.0882	1.1081		
21.374	5.22	5 (0 1 1)	10.687	0.0958	1.2037		
22.058	5.06	4 (3 0 -1)	11.029	0.0988	1.2417		
22.864	4.884	15 (2 1 0)	11.432	0.1024	1.2865		
23.573	4.739	1 (3 0 1)	11.787	0.1055	1.3258		
24.361	4.588	4 (2 0 2)	12.18	0.109	1.3695		
26.3	4.255	10 (2 0 2)	13.15	0.1175	1.4767		
26.932	4.157	3 (4 0 0)	13.466	0.1203	1.5115		
28.475	3.936	3 (0 1 2)	14.237	0.127	1.5963		
28.857	3.885	10 (1 1 -2)	14.428	0.1287	1.6173		
29.684	3.779	5 (1 1 2)	14.842	0.1323	1.6627		
32.33	3.477	38 (2 1 2)	16.165	0.1438	1.8071		
32.855	3.423	3 (4 1 0)	16.427	0.1461	1.8356		
33.873	3.223	1 (4 1 -1)	16.936	0.1505	1.8908		
34.734	3.243	1 (5 0 -1)	17.367	0.1542	1.9375		
36.282	3.109	15 (2 0 3)	18.141	0.1608	2.021		
37.52	3.01	2 (0 2 0)	18.76	0.1661	2.0874		
39.843	2.841	2 (1 2 1)	19.921	0.176	2.2116		
40.894	2.771	4 (6 0 0)	20.447	0.1804	2.2675		
41.488	2.733	1 (6 0 -1)	20.744	0.1829	2.299		
43.948	2.587	1 (3 2 -1)	21.974	0.1933	2.4288		
45.389	2.509	3 (5 0 -3)	22.695	0.1993	2.5043		
46.809	2.437	1 (3 0 -4)	23.404	0.2052	2.5782		
47.532	2.402	2 (4 2 -1)	23.766	0.2082	2.6158		
49.007	2.334	1 (6 1 -2)	24.503	0.2142	2.692		
50.27	2.279	1 (0 2 3)	25.135	0.2194	2.757		
52.158	2.202	1 (6 1 2)	26.079	0.2271	2.8534		
53.066	2.167	1 (2 2 3)	26.533	0.2307	2.8995		
54.117	2.128	2 (7 1 1)	27.058	0.235	2.9526		
58.761	1.9731	2 (0 3 1)	29.381	0.2534	3.1844		

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13.04	3462
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13.14	3604
13.16	3535
13.18	3603
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13.96	2314
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15.42	1205
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16.56	1127
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16.6	1051

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16.94	1005
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17	1053
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17.08	1099
17.1	1027
17.12	1081
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17.16	1089
17.18	1025
17.2	1029
17.22	1003
17.24	1025
17.26	1015
17.28	1059
17.3	1013
17.32	1016
17.34	1065
17.36	1025
17.38	1077
17.4	1015
17.42	997
17.44	1108
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17.54	1046
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17.64	1027
17.66	1041
17.68	1008
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17.72	1041
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17.78	1060
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17.94	1054
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68.7	869
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84.76	421
84.78	389
84.8	423
84.82	375
84.84	423
84.86	403
84.88	414
84.9	404
84.92	400

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84.98	405
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85.22	405
85.24	420
85.26	401
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85.3	404
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85.38	401
85.4	354
85.42	410
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85.46	412
85.48	376
85.5	400
85.52	422
85.54	381
85.56	401
85.58	413
85.6	400
85.62	396
85.64	374
85.66	401
85.68	408
85.7	404
85.72	394
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85.96	379
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86.06	422
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86.14	375
86.16	371
86.18	384
86.2	401
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86.24	424
86.26	386
86.28	383
86.3	375
86.32	417
86.34	409
86.36	401
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86.4	383
86.42	385
86.44	430
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86.58	391
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86.62	359
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86.66	373
86.68	394
86.7	413
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87.36	419

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