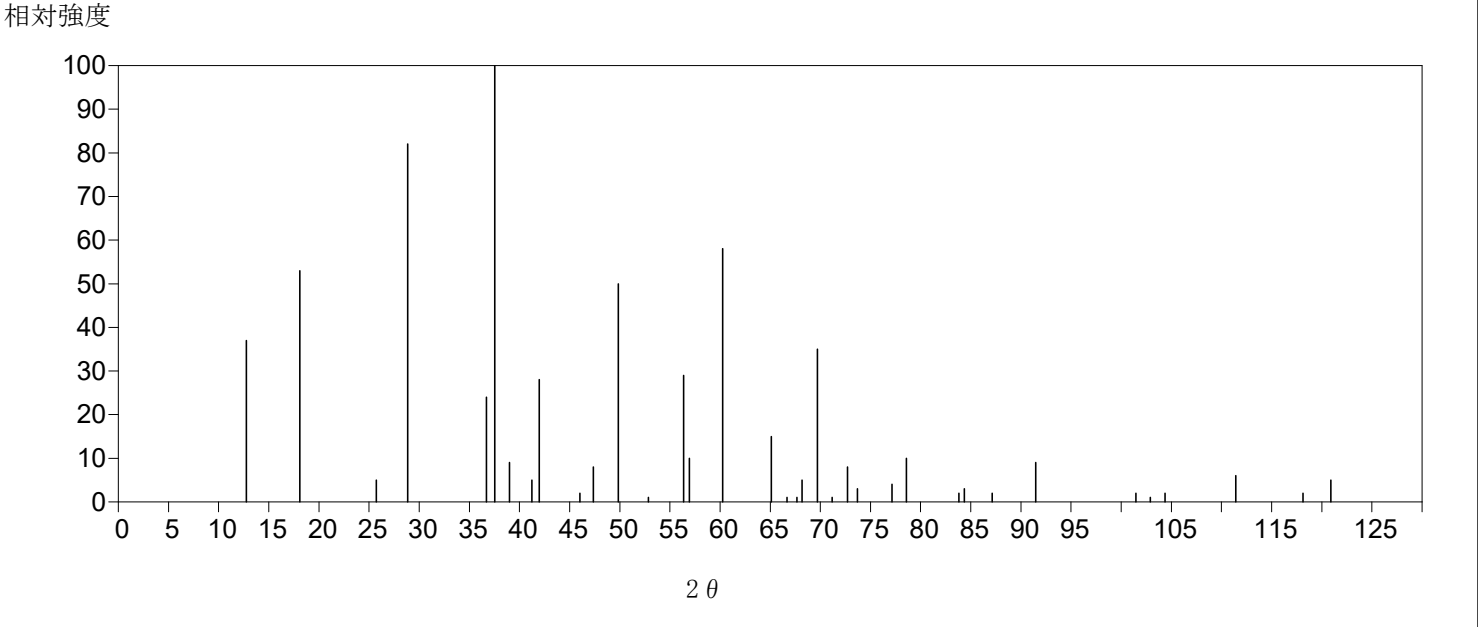


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サブファイル名:	Inorganic, Alloy&Metal				
化学式:	Mn O2				
名称:	$\alpha$ -Mn O2		I/Ic (RIR値)= ---		
結晶系:	Tetragonal	空間群: I4/m(87)	実測密度:		
格子定数:	a= 9.7847	b= 9.7847	c= 2.8630		
	$\alpha$ = 90.000	$\beta$ = 90.000	$\gamma$ = 90.000		
	格子体積= 274.105	Z= 8			
参考文献:	Liles, D., Rossouw, M., Thackeray, M., Div. Mater. Sci. & Tech., CSIR, Pretoria, South...				
線源:	CuK $\alpha$	波長= 1.54056			
2 $\theta$ 範囲:	12.78 - 120.91				

コメント: Analysis: Chemical analysis showed a residual Li+ content of only 0.029 wt.% and a residual H content of 0.03 wt.% (equivalent to a residual 'H2 O' content of 0.29 wt.%). Color: Black. General Comments: Validated by Rietveld structure refinements using both X-ray and neutron diffraction data. Sample Preparation: Prepared by acid treatment of 'Li2 Mn O3' (prepared from electrolytic 'Mn O2' and 'Li O H · H2 O' at 800 C) with 1-5M 'H2 S O4' at ~90 C and dried overnight at 300 C.



No	2 $\theta$	d値	強度	h	k	l	No	2 $\theta$	d値	強度	h	k	l
1	12.78	6.919	37.0	1	1	0	21	69.71	1.348	35.0	5	4	1
2	18.11	4.895	53.0	2	0	0	22	71.19	1.323	1.0	2	2	2
3	25.71	3.462	5.0	2	2	0	23	72.71	1.299	8.0	3	1	2
4	28.84	3.093	82.0	3	1	0	24	73.70	1.284	3.0	7	3	0
5	36.70	2.447	24.0	4	0	0	25	77.16	1.235	4.0	4	0	2
6	37.52	2.395	100.0	2	1	1	26	78.59	1.216	10.0	3	3	2
7	39.01	2.307	9.0	3	3	0	27	83.82	1.153	2.0	6	6	0
8	41.23	2.188	5.0	4	2	0	28	84.35	1.147	3.0	5	1	2
9	41.97	2.151	28.0	3	0	1	29	87.15	1.117	2.0	7	4	1
10	46.04	1.970	2.0	3	2	1	30	91.46	1.076	9.0	6	0	2
11	47.37	1.917	8.0	5	1	0	31	101.47	0.995	2.0	7	1	2
12	49.86	1.827	50.0	4	1	1	32	102.90	0.985	1.0	6	4	2
13	52.86	1.731	1.0	4	4	0	33	104.36	0.975	2.0	8	5	1
14	56.37	1.631	29.0	6	0	0	34	111.41	0.932	6.0	2	1	3
15	56.93	1.616	10.0	4	3	1	35	118.14	0.898	2.0	6	6	2
16	60.27	1.534	58.0	5	2	1	36	120.91	0.885	5.0	4	1	3
17	65.11	1.431	15.0	0	0	2							
18	66.69	1.401	1.0	1	1	2							
19	67.65	1.384	1.0	7	1	0							
20	68.18	1.374	5.0	2	0	2							

注 : 2 $\theta$  の値は、波長＝ 1.54056で計算されています。