Name and formula

Reference code: 01-075-1527

ICSD name: Magnesium Hydroxide

Empirical formula: H_2MgO_2
Chemical formula: $Mg(OH)_2$

Crystallographic parameters

Crystal system: Hexagonal
Space group: P-3m1
Space group number: 164

a (Å): 3,1300
b (Å): 3,1300
c (Å): 4,7500
Alpha (°): 90,0000
Beta (°): 90,0000
Gamma (°): 120,0000

Calculated density (g/cm^3): 2,40
Volume of cell (10^6 pm^3): 40,30
Z: 1,00

RIR: 2,49

Subfiles and Quality

Subfiles: Inorganic
Modelled additional pattern
Quality: Calculated (C)

Comments

ICSD collection code: 031053
Test from ICSD: No R value given.
At least one TF missing.

References

Primary reference: *Calculated from ICSD using POWD-12++*, (1997)
Structure: Aminoff, G., *Z. Kristallogr., Kristallgeom., Kristallphys., Kristallchem.*, **56**, 505, (1921)

Peak list

No.	h	k	l	d [A]	2Theta[deg]	I [%]
1	0	0	1	4,75000	18,666	100,0
2	1	0	0	2,71066	33,019	6,3
3	1	0	1	2,35429	38,197	77,3
4	1	0	2	1,78633	51,090	35,8
5	0	0	3	1,58333	58,222	0,4
6	1	1	0	1,56500	58,971	17,4
7	1	1	1	1,48640	62,427	9,4

8	0	1	3	1,36719	68,585	9,3
9	2	0	0	1,35533	69,270	0,7
10	0	2	1	1,30331	72,461	5,4
11	0	0	4	1,18750	80,883	1,1
12	0	2	2	1,17714	81,746	4,7
13	1	1	3	1,11305	87,587	0,5

Stick Pattern