>>**Entry Name: Magnesium sulfate hexahydrate**
Synonym(s): Sulfuric acid, magnesium salt, hexahydrate, 8CI

CAS Registry Number: 17830-18-1
$MgSO_4.6H_2O$

Molecular Formula: $H_{12}MgO_{10}S$
Molecular Weight: 228.46
Accurate Mass: 228.000162
Percentage Composition: H 5.29%; Mg 10.64%; O 70.03%; S 14.04%
Physical Description: Colourless monoclinic cryst. Dec. on heating → monohydrate at 70-150° in a single stage. Subsequently the anhyd. material is obt.
Other Data: ΔH_f° –3087 kJ mol^{-1}; ΔG_f° –2632 kJ mol^{-1}; S° 348 J K^{-1} mol^{-1}

>>**Variant:** Mineral-form
Synonym(s): Hexahydrite

CAS Registry Number: 13778-97-7
Molecular Formula: $H_{12}MgO_{10}S$
Molecular Weight: 228.46
Accurate Mass: 228.000162
Percentage Composition: H 5.29%; Mg 10.64%; O 70.03%; S 14.04%

Source/Synthesis: Dehyd. product of Epsomite
Physical Description: White to pale greenish cryst.

References:

Zalkin, A. *et al.*, *Acta Cryst.*, 1964, **17**, 235, *(cryst struct)*
Lafont, R. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. B*, 1966, **262**, 83, *(Raman)*
Lallemant, M. *et al.*, *Rev. Chim. Miner.*, 1974, **11**, 113, *(dissn press)*
Skokanova, Z. *et al.*, *Czech. J. Phys., Sect. B (Engl. Transl.)*, 1978, **28**, 220, *(magnetism)*
Petrushenko, L.G. *et al.*, *Zh. Fiz. Khim.*, 1981, **55**, 1332, *(thermal dec)*