



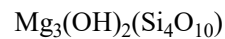
>>Entry Name: Talc, 9CI

ENTRY UNDER REVIEW

Synonym(s): Magnesium hydroxide silicate ($\text{Mg}_3(\text{OH})_2(\text{Si}_4\text{O}_{10})$). French chalk

CAS Registry Number: 14807-96-6

Related CAS Registry Numbers(s): 14378-12-2



Molecular Formula: $\text{H}_2\text{Mg}_3\text{O}_{12}\text{Si}_4$

Molecular Weight: 379.266

Accurate Mass: 377.817464

Percentage Composition: H 0.53%; Mg 19.23%; O 50.62%; Si 29.62%

Source/Synthesis: Common mineral. The major constituent of *Soapstone* or *Steatite*

Use/Importance: Used for thermal and electrical insulation, as a lubricant and tablet and capsule diluent; in soaps and cosmetics; as a ceramic raw material; as a filler for paper, paints and rubber

Physical Description: Powder

Solubility: Insol. H_2O

Aldrich: 24360-4

Fluka: 86255

Sigma: M3661

References:

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Perdikatsis, B. *et al.*, *Z. Kristallogr.*, 1981, **156**, 177, (cryst struct)

Sanz, J. *et al.*, *J.A.C.S.*, 1984, **106**, 4790, (Si-29 nmr)

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