



>>Entry Name: Aluminium magnesium silicate ($\text{Al}_2\text{Mg}(\text{SiO}_4)_2$)

Synonym(s): Magnesium aluminosilicate ($\text{Mg}(\text{AlSiO}_4)_2$). Silicic acid (H_4SiO_4) aluminium magnesium salt (2:2:1)

CAS Registry Number: 12511-31-8

Related CAS Registry Numbers(s): 75137-70-1

$\text{MgAl}_2(\text{SiO}_4)_2$

Molecular Formula: $\text{Al}_2\text{MgO}_8\text{Si}$

Molecular Weight: 234.349

Accurate Mass: 233.884367

Percentage Composition: Al 23.03%; Mg 10.37%; O 54.62%; Si 11.98%

Source/Synthesis: Synth. from $\text{MgO} + \text{Al}_2\text{O}_3 + \text{SiO}_2$. A dihydrated form occurs in nature as the mineral *magnesiocarpholite*

Biological Use/Importance: Antacid. Also used as a suspending and thickening agent

Physical Description: Polycryst.

References:

- Schulz, H. *et al.*, *Z. Kristallogr., Kristallgeom., Kristallphys., Kristallchem.*, 1971, **133**, 91-109, (synth, cryst struct)
Chopin, C., *Contrib. Mineral. Petrol.*, 1981, **76**, 260-264, (magnesiocarpholite, synth, cryst struct)