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>>Entry Name: Potassium trimagnesium aluminotrisilicate difluoride

Synonym(s): Potassium fluorophlogopite. Fluorophlogopite

CAS Registry Number: 12003-38-2

$\text{KMg}_3[\text{Si}_3\text{AlO}_{10}]\text{F}_2$

Molecular Formula:  $\text{AlF}_2\text{KMg}_3\text{O}_{10}\text{Si}_3$

Molecular Weight: 421.242

Accurate Mass: 419.777109

Percentage Composition: Al 6.41%; F 9.02%; K 9.28%; Mg 17.31%; O 37.98%; Si 20.00%

Source/Synthesis: Mineral. Synth. by sol-gel methods

Physical Description: White cryst.

Solubility: Insol.

**References:**

*Kirk-Othmer Encycl. Chem. Technol.*, 3rd edn., Wiley, 1978, 414, (natural form)

Duldulao, F.D. *et al.*, *Chem. Mater.*, 1991, **3**, 772, (synth, cryst struct, Si-29 nmr)