



>>Entry Name: Potassium tetrafluoroaluminate(1-)

CAS Registry Number: 14484-69-6

$\text{K}[\text{AlF}_4]$

Molecular Formula: AlF_4K

Molecular Weight: 142.073

Accurate Mass: 141.938858

Percentage Composition: Al 18.99%; F 53.49%; K 27.52%

Source/Synthesis: Synth. from KF and AlF_3 at 600° or hydrothermally at 300° and 1600 atm.

Physical Description: Hygroscopic colourless plates

Aldrich: 43562-7

References:

Brosset, C., *Z. Anorg. Allg. Chem.*, 1938, **239**, 301, (*powder struct*)

Soga, T. *et al.*, *J. Chem. Phys.*, 1974, **61**, 1990, (*synth, ir*)

Kolosoov, E.N. *et al.*, *Russ. J. Phys. Chem. (Engl. Transl.)*, 1975, **49**, 476, (*ms*)

Thompson, W.T. *et al.*, *Can. J. Chem.*, 1976, **54**, 3342, (*phase diagram*)

Vajda, E. *et al.*, *Inorg. Chim. Acta*, 1977, **25**, L143, (*ed*)

Plet, F. *et al.*, *J. Cryst. Growth*, 1979, **47**, 699, (*synth*)

Wanklyn, B.M. *et al.*, *J. Mater. Sci.*, 1979, **14**, 1447, (*synth*)

Nouet, J. *et al.*, *Acta Cryst. B*, 1981, **37**, 32, (*cryst struct*)