



>>Entry Name: Potassium methoxide

Synonym(s): Methanol potassium salt, 8Cl. Methoxypotassium

CAS Registry Number: 865-33-8

KOMe

Molecular Formula: CH₃KO

Molecular Weight: 70.132

Accurate Mass: 69.982097

Percentage Composition: C 17.13%; H 4.31%; K 55.75%; O 22.81%

Source/Synthesis: Synth. by dissoln. of K in MeOH. Manuf. by reaction of CaO, ROH (R = C₁₋₆ alkyl) and anhydrous KOH

Use/Importance: Commercially available. Widely used as a polym. catalyst; base in org. chem.

Physical Description: Moisture-sensitive colourless tetragonal cryst. Reacts with H₂O to form MeOH and KOH

Hazard & Toxicity: Flammable, corrosive

Aldrich: 29278-8

Fluka: 60408

Other: Gelest AKP645

References:

Brady, O.L. *et al.*, *J.C.S.*, 1950, 767, (*uses*)

Weiss, E., *Helv. Chim. Acta*, 1963, **46**, 2051, (*cryst struct*)

Simonov, A.P. *et al.*, *CA*, 1966, **64**, 14061c, (*ir*)

Ger. Pat., 1980, 2 913 579; *CA*, **93**, 238825, (*manuf*)

Sigma-Aldrich Library of Chemical Safety Data, 1988, **2**, 2906A, (*haz*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PLK850