



>>Entry Name: Potassium ethoxide

Synonym(s): Ethanol potassium salt, 9CI. Ethyl alcohol potassium salt, 8CI. Ethoxypotassium

CAS Registry Number: 917-58-8

Related CAS Registry Numbers(s): 16331-64-9

KOEt

Molecular Formula: C₂H₅KO

Molecular Weight: 84.159

Accurate Mass: 83.997747

Percentage Composition: C 28.54%; H 5.99%; K 46.46%; O 19.01%

Source/Synthesis: Synth. by dissoln. of K in EtOH

Use/Importance: Commercially available. Strong base

Physical Description: Moisture-sensitive white powder. Reacts with H₂O to form EtOH and KOH. Dec. on heating in a series of complex reactions which involve H₂ and C₂H₄ evolution

Solubility: Sol. EtOH, Et₂O

Other Data: ΔH_f° -496 kJ mol⁻¹

Hazard & Toxicity: Flammable

Aldrich: 33337-9

Sigma: P7833

Other: Gelest AKP640

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 742C, (nmr)

Barthel, J. *et al.*, *Electrochim. Acta*, 1971, **16**, 723, (association in EtOH)

Blanchard, J.M. *et al.*, *J. Chim. Phys. Phys.-Chim. Biol.*, 1974, **71**, 472, (thermodynamics)

Blanchard, J.M. *et al.*, *J. Therm. Anal.*, 1976, **9**, 191, (thermal dec)

Javadi, N. *et al.*, *Q. Bull. Fac. Sci., Tehran Univ.*, 1976, **7**, 135; *CA*, 1977, **87**, 29902, (ir)

Krachanov, Kh. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1979, **12**, 3, (use)

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