



>>Entry Name: Potassium *tert*-butoxide

Synonym(s): 2-Methyl-2-propanol potassium salt. *tert*-Butoxypotassium

CAS Registry Number: 865-47-4

$\text{KOC}(\text{CH}_3)_3$

Molecular Formula: $\text{C}_4\text{H}_9\text{KO}$

Molecular Weight: 112.213

Accurate Mass: 112.029047

Percentage Composition: C 42.82%; H 8.08%; K 34.84%; O 14.26%

Source/Synthesis: Synth. from K metal in dry Bu^tOH ; purif. by subl. *in vacuo* at 220°

Use/Importance: Catalyst for several reactions, e.g. anionic polym. of lactams, Claisen condensation of benzaldehydes

Physical Description: Solid

Melting Point: Mp 220 dec.°

Solubility: Sol. hexane, Bu^tOH , THF

Other Data: Ir ν_{KO} 477 cm^{-1} . V. reactive; must be studied under Ar

Aldrich: 32865-0

Fluka: 60103

Other: Gelest AKP630

References:

Simonov, A.P. *et al.*, *CA*, **67**, 86234x, (*ir*)

Feuer, H. *et al.*, *J.A.C.S.*, 1956, **78**, 4364, (*synth*)

Graves, B.B. *et al.*, *Chem. Ind. (London)*, 1962, 2137, (*synth*)

Weiss, E. *et al.*, *Angew. Chem., Int. Ed.*, 1967, **6**, 801, (*powder struct*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 911, (*use*)

Weiss, E. *et al.*, *Chem. Ber.*, 1968, **101**, 3777, (*powder struct, pmr, ms*)

Gurjar, M.K. *et al.*, *Indian J. Chem., Sect. B*, 1976, **14**, 548, (*use*)