



>>Entry Name: Potassium *tert*-pentyloxide

Synonym(s): 2-Methyl-2-butanol potassium salt. (2-Methyl-2-butoxy)potassium

CAS Registry Number: 41233-93-6

$\text{KOC}(\text{CH}_3)_2\text{CH}_2\text{CH}_3$

Molecular Formula: $\text{C}_5\text{H}_{11}\text{KO}$

Molecular Weight: 126.24

Accurate Mass: 126.044697

Percentage Composition: C 47.57%; H 8.78%; K 30.97%; O 12.67%

Source/Synthesis: Synth. from oxide-free K metal and dry 2-methyl-2-butanol

Use/Importance: Used as a catalyst for copolym. of butadiene with styrene

Physical Description: Not isol.; prepd. *in situ*

Hazard & Toxicity: Fl. p. -18°

Aldrich: 42759-4

Fluka: 60435

Other: Gelest AKP648

References:

Brown, H.C., *J.A.C.S.*, 1953, **75**, 4112, (*synth, use*)

Morton, A.A. *et al.*, *J.A.C.S.*, 1954, **76**, 4935, (*synth, use*)

Pearson, D.E. *et al.*, *J.O.C.*, 1963, **28**, 1557, (*use, synth*)