



>>Entry Name: Sodium *tert*-butoxide

Synonym(s): 2-Methyl-2-propanol sodium salt. *tert*-Butoxysodium

CAS Registry Number: 865-48-5

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

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

Molecular Weight: 96.104

Accurate Mass: 96.055107

Percentage Composition: C 49.99%; H 9.44%; Na 23.92%; O 16.65%

Source/Synthesis: Synth. from Na sand and Bu^tOH , or by atomising molten Na metal into Bu^tOH soln. with 5-15% hydrocarbon solv.

Use/Importance: Used as a catalyst in numerous reactions, e.g. for polym. of dienes, polym of lactams, vinylation of pyrrolidone

Melting Point: Mp 263-270 dec.°

Boiling Point: Subl.₁ 180°

Other Data: Ir ν_{ROH} 2968, 1197, 916; ν_{RONa} 2952, 1214, 956, 936 (nujol); ν_{NaO} 497 cm^{-1} . V. reactive, must be studied under Ar

Aldrich: 35927-0

Fluka: 71337

Other: Gelest AKS730

References:

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

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

Seubold, F.H., *J.O.C.*, 1956, **21**, 156, (*ir*)

Japan. Pat., 1993, 05 170 680; *CA*, **119**, 138730, (*synth*)