



>>Entry Name: Aluminium butoxide

Synonym(s): 1-Butanol aluminium salt, 9CI. Butyl alcohol aluminium salt, 8CI

CAS Registry Number: 3085-30-1

$\text{Al}(\text{OCH}_2\text{CH}_2\text{CH}_2\text{CH}_3)_3$

Molecular Formula: $\text{C}_{12}\text{H}_{27}\text{AlO}_3$

Molecular Weight: 246.325

Accurate Mass: 246.177559

Percentage Composition: C 58.51%; H 11.05%; Al 10.95%; O 19.49%

Source/Synthesis: Synth. from Al and BuOH

Use/Importance: Condensing agent; used for redn. of ketones

Physical Description: Powder

Boiling Point: Bp_6 275°

Other Data: Sublimes *in vacuo*

Aldrich: 40335-0

Other: Gelest AKA010

References:

Häusermann, M., *Helv. Chim. Acta*, 1951, **34**, 2172, (*synth*)

Mehrotra, R.C., *J. Indian Chem. Soc.*, 1953, **30**, 585, (*synth*)

Coffey, S. *et al.*, *J.C.S.*, 1954, 2468

Wilhoit, R.C. *et al.*, *J. Inorg. Nucl. Chem.*, 1963, **24**, 851, (*ir*)

Kozlova, I.K. *et al.*, *CA*, 1968, **70**, 3179, (*synth*)