



>>Entry Name: Gallium(III) isopropoxide

Synonym(s): Triisopropoxygallium. 2-Propanol gallium salt (3:1). Isopropanol gallium salt

CAS Registry Number: 4452-61-3

$\text{Ga}[\text{OCH}(\text{CH}_3)_2]_3$

Molecular Formula: $\text{C}_9\text{H}_{21}\text{GaO}_3$

Molecular Weight: 246.986

Accurate Mass: 246.07465

Percentage Composition: C 43.77%; H 8.57%; Ga 28.23%; O 19.43%

General Statement: Approx. dimer in C_6H_6

Source/Synthesis: Synth. from $\text{Ga}(\text{OEt})_3$ + 2-propanol

Use/Importance: Starting material for a range of other alkoxides

Physical Description: Colourless viscous moisture-sensitive liq.

Boiling Point: Bp_1 120°

Solubility: Sol. C_6H_6

Other Data: Et, propyl, butyl and *tert*-butyl derivs. also descr.

References:

Mehrotra, R.C. *et al.*, *Curr. Sci.*, 1964, **33**, 241; *CA*, **60**, 15722, (*synth*)

Reinmann, R. *et al.*, *Z. Naturforsch., B*, 1965, **20**, 524, (*synth*)

Bindal, S.R. *et al.*, *Inorg. Chem.*, 1968, **7**, 384, (*reactions*)

Bindal, S.R. *et al.*, *J.C.S.(A)*, 1969, 863, (*reactions*)