



>>Entry Name: Lanthanum isopropoxide

Synonym(s): 2-Propanol lanthanum(3+) salt, 9CI. Lanthanum 2-propoxide. Lanthanum triisopropoxide. Triisopropoxylanthanum

CAS Registry Number: 19446-52-7

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

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

Molecular Weight: 316.169

Accurate Mass: 316.055417

Percentage Composition: C 34.19%; H 6.69%; La 43.93%; O 15.18%

Source/Synthesis: Synth. from La turnings + Pr^iOH with HgCl_2 as catalyst at 82° for 24 h

Physical Description: Extremely moisture-sensitive solid

Melting Point: Mp $120\text{-}128^\circ$

Boiling Point: Subl._{0.1} $250\text{-}300^\circ$

Solubility: Readily sol. common org. solvs.

Other: Gelest AKL420

References:

Misra, S.N. *et al.*, *Chem. Ind. (London)*, 1963, 120, (*synth*)

Brown, L.M. *et al.*, *Inorg. Chem.*, 1970, **9**, 2783, (*synth, ir, pmr*)

Bradley, D.C. *et al.*, *Metal Alkoxides*, Academic Press, 1978, (*bibl*)

Mehrotra, R.C. *et al.*, *Chem. Rev.*, 1991, **91**, 1287, (*rev*)

Lebrun, A. *et al.*, *Tet. Lett.*, 1991, **32**, 2355, (*synth, use*)