



>>Entry Name: Lanthanum(III) hydroxide (La(OH)₃)

Synonym(s): Lanthanum trihydroxide

CAS Registry Number: 14507-19-8

La(OH)₃

Molecular Formula: H₃LaO₃

Molecular Weight: 189.927

Accurate Mass: 189.914567

Percentage Composition: H 1.59%; La 73.14%; O 25.27%

Physical Description: Colourless solid

Solubility: Insol. H₂O

Other Data: Dec at 260°. Basic:- reacts with CO₂ from air to afford lanthanum carbonate

Aldrich: 44722-6

Fluka: 61510

References:

Atoji, M. *et al.*, *J. Chem. Phys.*, 1959, **31**, 329, (*cryst struct*)

Mroczkowski, S. *et al.*, *J. Cryst. Growth*, 1970, **7**, 333, (*synth*)

Gmelin Handbook Inorg. Chem., Syst. No. 39, Suppl. vol., 1974, **C2**, 31, (*rev*)

Beall, G.W. *et al.*, *J. Inorg. Nucl. Chem.*, 1977, **39**, 65, (*cryst struct*)

Swanson, B.I. *et al.*, *J. Inorg. Nucl. Chem.*, 1978, **40**, 694, (*ir, Raman*)