



>>Entry Name: Tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato-*O,O'*)lanthanum(*III*)

Synonym(s): La(fod)₃

CAS Registry Number: 19106-89-9

As Tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato-*O,O'*)chromium(*III*), [KBB54-I](#) with
M = La

Molecular Formula: C₃₀H₃₀F₂₁LaO₆

Molecular Weight: 1024.435

Accurate Mass: 1024.07705

Percentage Composition: C 35.17%; H 2.95%; F 38.95%; La 13.56%; O 9.37%

Use/Importance: Nmr shift reagent

Physical Description: Hygroscopic white solid

Melting Point: Mp 118-125 dec.°

Solubility: Sol. CHCl₃, C₆H₆, EtOH

>>Derivative: Monohydrate

CAS Registry Number: 18284-86-1

Molecular Formula: C₃₀H₃₂F₂₁LaO₇

Molecular Weight: 1042.45

Accurate Mass: 1042.087615

Percentage Composition: C 34.57%; H 3.09%; F 38.27%; La 13.32%; O 10.74%

Physical Description: White solid

Melting Point: Mp 215-230 dec.°

Solubility: Sol. CH₂Cl₂, MeOH

Other Data: Loses H₂O on storage over P₂O₅ *in vacuo*

References:

Sievers, R.E. *et al.*, *Adv. Chem. Ser.*, 1967, **71**, 141, (*synth*)

Springer, C.S. *et al.*, *Inorg. Chem.*, 1967, **6**, 1105, (*synth*)

Karraker, D.G., *J. Inorg. Nucl. Chem.*, 1971, **33**, 3713, (*synth*)

Eisenhart, J.M. *et al.*, *J.O.C.*, 1985, **50**, 4108, (*use*)