



>>Entry Name: **Tris(2,4-pentanedionato-*O,O'*)lutetium(III)**

Synonym(s): Tris(acetylacetonato)lutetium(III). Lutetium(III) acetylacetonate. Lu(acac)₃

CAS Registry Number: 17966-84-6

As Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)lutetium(III), [HQZ84-B](#) with
 $R^1 = R^2 = CH_3$

Molecular Formula: C₁₅H₂₁LuO₆

Molecular Weight: 472.294

Accurate Mass: 472.074585

Percentage Composition: C 38.15%; H 4.48%; Lu 37.05%; O 20.33%

Other: Gelest AKL480

>>**Derivative:** Trihydrate

CAS Registry Number: 90697-91-9

Physical Description: Cryst. + 1H₂O

Other Data: 8-Coord.

References:

Pope, G.W. *et al.*, *J. Inorg. Nucl. Chem.*, 1961, **20**, 304, (*synth*)

Kemlo, J.A. *et al.*, *Inorg. Chem.*, 1977, **16**, 1111, (*synth, pmr*)

Gmelin Handbook Inorg. Chem., Syst. No. 39 Suppl. Vol., 1981, **D3**, 82, (*rev*)