



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

Synonym(s): Er(fod)₃

CAS Registry Number: 17978-75-5

As Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)erbium(III), [HRB65-N](#) with
 $R^1 = C(CH_3)_3$, $R^2 = CF_2CF_2CF_3$

Molecular Formula: C₃₀H₃₀ErF₂₁O₆

Molecular Weight: 1052.79

Accurate Mass: 1051.100993

Percentage Composition: C 34.23%; H 2.87%; Er 15.89%; F 37.90%; O 9.12%

Physical Description: Hygroscopic pink solid

Melting Point: Mp 158-164°

Solubility: Sol. CHCl₃, C₆H₆, EtOH

Other Data: Forms adducts with Lewis bases. Volatile *in vacuo*

Aldrich: 33277-1

Fluka: 93292

Other: Gelest AKE274

>>Derivative: Monohydrate

CAS Registry Number: 17633-08-8

Molecular Formula: C₃₀H₃₂ErF₂₁O₇

Molecular Weight: 1070.805

Percentage Composition: C 33.65%; H 3.01%; Er 15.62%; F 37.26%; O 10.46%

Physical Description: Pink solid

Melting Point: Mp 104-112°

Solubility: Sol. CH₂Cl₂, MeOH

Other Data: Loses H₂O *in vacuo* over P₂O₅

References:

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

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

Risby, T.H. *et al.*, *Anal. Chem.*, 1974, **46**, 726, (*ms*)

Gmelin Handbook Inorg. Chem., Syst. No. 39, 1981, **D3**, 155, (*rev*)