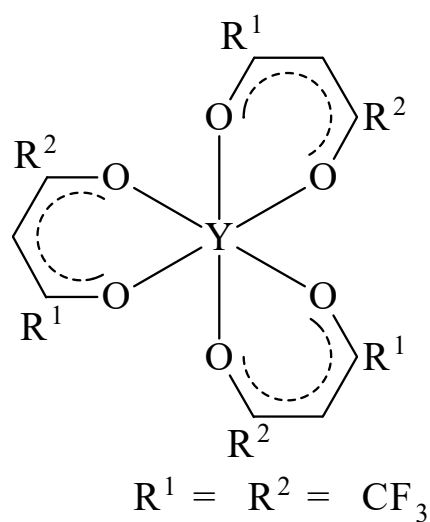




>>Entry Name: Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)yttrium(III), 9Cl

Synonym(s): Tris(hexafluoroacetylacetonato)yttrium(III). Yttrium(III) hexafluoroacetylacetonate. Y(hfac)₃



CAS Registry Number: 18911-76-7

Molecular Formula: C₁₅H₃F₁₈O₆Y

Molecular Weight: 710.062

Accurate Mass: 709.870068

Percentage Composition: C 25.37%; H 0.43%; F 48.16%; O 13.52%; Y 12.52%

Physical Description: V. hygroscopic white cryst.

Melting Point: Mp 142-144°

Boiling Point: Subl._{0.05} 180°

Solubility: Sol. MeOH, Et₂O

Other: Gelest AKY924

>>Derivative: Dihydrate

Molecular Formula: C₁₅H₇F₁₈O₈Y

Molecular Weight: 746.093

Percentage Composition: C 24.15%; H 0.95%; F 45.83%; O 17.16%; Y 11.92%

Boiling Point: Subl. 100° *in vacuo*

References:

Berg, E.W. *et al.*, *Anal. Chim. Acta*, 1968, **40**, 101, (*synth*)

Richardson, M.F. *et al.*, *J. Inorg. Nucl. Chem.*, 1968, **30**, 1275, (*synth, ir*)

Gmelin Handbook Inorg. Chem., Syst. No. 39, 1981, **D3**, 105, (*rev*)