



>>Entry Name: Tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato-*O,O'*)ytterbium(III), 9Cl

Synonym(s): Resolve-Al YbFOD. Yb(fod)₃

CAS Registry Number: 18323-96-1

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

Molecular Formula: C₃₀H₃₀F₂₁O₆Yb

Molecular Weight: 1058.57

Accurate Mass: 1057.106081

Percentage Composition: C 34.04%; H 2.86%; F 37.69%; O 9.07%; Yb 16.35%

Use/Importance: Used in conjunction with Ag(fod)₃ as nmr downfield shift reagent for aromatic protons. Catalyst for Diels-Alder reactions with cycloalkenones.
Commercially available

Physical Description: Hygroscopic white cryst.

Melting Point: Mp 125-132°

Solubility: Insol. H₂O; sol. CHCl₃

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

Aldrich: 22583-5

Sigma: T2516

Other: Gelest AKY921

>>Derivative: Monohydrate

CAS Registry Number: 17633-07-7

Physical Description: White cryst. (CH₂Cl₂)

Melting Point: Mp 112-115°

Solubility: Sol. CH₂Cl₂, MeOH

Hazard & Toxicity: Deflagrates >100° or *in vacuo*

References:

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