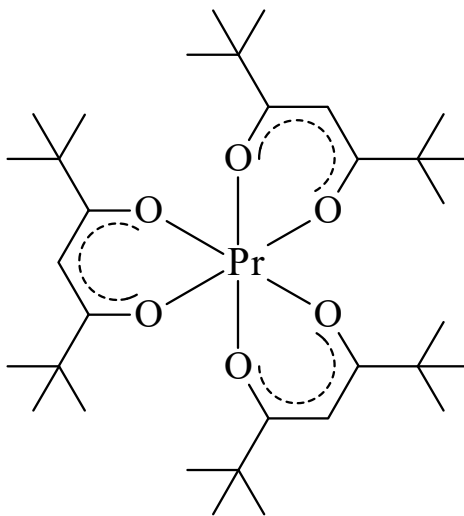




>>Entry Name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato-*O,O'*)praseodymium(*III*)

Synonym(s): Tris(dipivaloylmethanido)praseodymium. Praseodymium(*III*) dipivaloylmethanide. Pr(thd)₃. Resolve-Al Pr



CAS Registry Number: 15492-48-5

Related CAS Registry Numbers(s): 65366-39-4

Molecular Formula: C₃₃H₅₇O₆Pr

Molecular Weight: 690.717

Accurate Mass: 690.323062

Percentage Composition: C 57.38%; H 8.32%; O 13.90%; Pr 20.40%

Use/Importance: Commercially available. Nmr upfield shift reagent

Physical Description: Hygroscopic cryst. (hexane)

Melting Point: Mp 219-221°. Mp 222-224° (sealed capillary)

Boiling Point: Subl. 180° *in vacuo*

Aldrich: 16088-1

Fluka: 81507

Sigma: T9761

Other: Gelest AKP661

>>Derivative: Dimer

CAS Registry Number: 32573-81-2

Molecular Formula: C₆₆H₁₁₄O₁₂Pr₂

Molecular Weight: 1381.435

Accurate Mass: 1380.646124

Percentage Composition: C 57.38%; H 8.32%; O 13.90%; Pr 20.40%

Physical Description: Pale green cryst. (hexane)

Melting Point: Mp 222-224°

Solubility: Sol. C₆H₆, CHCl₃, MeOH, EtOH, EtOAc, CCl₄, hexane

Other Data: 7-Coord.; paramagnetic, $\mu_{\text{eff}} = 3.6\mu_{\text{B}}$

>>Derivative: Ph₃PO complex (1:1)

Synonym(s): Tris(2,2,6,6-tetramethyl-3,5-heptanedionato-*O,O'*)(triphenylphosphine oxide)praseodymium(*III*)

CAS Registry Number: 68199-99-5

Molecular Formula: C₅₁H₇₂O₇PPr

Molecular Weight: 969.007

Accurate Mass: 968.409114

Percentage Composition: C 63.22%; H 7.49%; O 11.56%; P 3.20%; Pr 14.54%

Physical Description: Green monoclinic cryst.

>>Derivative: Py complex (1:1)

Synonym(s): Pyridinetris(2,2,6,6-tetramethyl-3,5-heptanedionato-*O,O'*)praseodymium(*III*)

CAS Registry Number: 33378-63-1

Molecular Formula: C₃₈H₆₂NO₆Pr

Molecular Weight: 769.819

Accurate Mass: 769.365261

Percentage Composition: C 59.29%; H 8.12%; N 1.82%; O 12.47%; Pr 18.30%

Physical Description: Green cryst.

Solubility: Sol. Py, C₆H₆