



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

Synonym(s): Rondeau's reagent. Resolve-Al PrFOD. Pr(fod)₃

CAS Registry Number: 17978-77-7

Related CAS Registry Numbers(s): 42942-19-8

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

Molecular Formula: C₃₀H₃₀F₂₁O₆Pr

Molecular Weight: 1026.437

Accurate Mass: 1026.07825

Percentage Composition: C 35.10%; H 2.95%; F 38.87%; O 9.35%; Pr 13.73%

Use/Importance: Nmr upfield chiral shift reagent; resolves diastereotopic protons in β-lactams. Induces shift difference in triglycerides, fatty acid residues. Commercially available

Physical Description: Hygroscopic, volatile green cryst. + ½ H₂O (CH₂Cl₂)

Melting Point: Mp 218-225 dec.°

Solubility: Insol. H₂O; sol. CHCl₃, C₆H₆, EtOH

Other Data: Forms 2:1 adducts in soln. with various donor ligands

Aldrich: 16135-7

Fluka: 81505

Sigma: T6887

Other: Gelest AKP656

>>Derivative: Monohydrate

CAS Registry Number: 49792-34-9

Physical Description: Green solid

Melting Point: Mp 218-225 dec.°

Solubility: Sol. CH₂Cl₂, MeOH

Other Data: Loses H₂O *in vacuo* over P₂O₅. Dimeric Pr₂(fod)₆·2H₂O struct.

References:

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