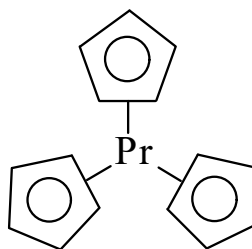




>>Entry Name: Tris(η^5 -2,4-cyclopentadien-1-yl)praseodymium, 9Cl

Synonym(s): Tri- π -cyclopentadienylpraseodymium, 8Cl



CAS Registry Number: 11077-59-1

Molecular Formula: C₁₅H₁₅Pr

Molecular Weight: 336.191

Accurate Mass: 336.024922

Percentage Composition: C 53.59%; H 4.50%; Pr 41.91%

Source/Synthesis: Synth. from NaCp and anhyd. PrCl₃ in THF

Use/Importance: With NaH, catalyses redn. of alkenes via hydrometallation

Physical Description: Pale green cryst. (by subl.)

Melting Point: Mp 420°

Boiling Point: Subl._{0.0001} 220°

Solubility: Sol. THF

Other Data: Hydrol. by H₂O

>>Derivative: Bis-MeCN complex

CAS Registry Number: 100360-15-4

Molecular Formula: C₁₉H₂₁N₂Pr

Molecular Weight: 418.296

Percentage Composition: C 54.56%; H 5.06%; N 6.70%; Pr 33.69%

Physical Description: Air- and moisture-sensitive green cryst.; turns orange after X-ray irradiation

Melting Point: Mp 238°

Other Data: Tbp struct. with equatorial Cp groups. Loses MeCN at 120° *in vacuo*

>>Derivative: THF complex

CAS Registry Number: 107901-61-1

Molecular Formula: C₁₉H₂₃OPr

Molecular Weight: 408.298

Percentage Composition: C 55.89%; H 5.68%; O 3.92%; Pr 34.51%

Physical Description: Air- and moisture-sensitive green cryst.

Solubility: Sol. THF

>>Derivative: Cyclohexylisocyanide complex

CAS Registry Number: 11057-26-4

Molecular Formula: C₂₂H₂₆NPr

Molecular Weight: 445.362

Percentage Composition: C 59.33%; H 5.88%; N 3.15%; Pr 31.64%

Physical Description: Air- and moisture-sensitive green needles

Solubility: Sol. C₆H₆; sl. sol. pentane

Other Data: Interatomic distances: Pr-C 265; C≡N 111 pm

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