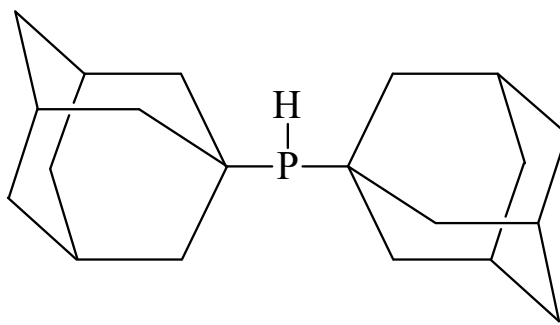




>>Entry Name: Di-1-adamantylphosphine

Synonym(s): Bis(bicyclo[3.3.1.1^{3,7}]dec-1-yl)phosphine



CAS Registry Number: 131211-27-3

Molecular Formula: C₂₀H₃₁P

Molecular Weight: 302.439

Accurate Mass: 302.216337

Percentage Composition: C 79.43%; H 10.33%; P 10.24%

Use/Importance: Ligand for Ni, Fe, Cr, Mo and W

Physical Description: Cryst. (MeCN/Et₂O)

Melting Point: Mp 134-137°. Mp 174-176°

>>Derivative: Methiodide

Synonym(s): Di-1-adamantyl(methyl)phosphonium iodide

Molecular Formula: C₂₁H₃₄IP

Molecular Weight: 444.378

Accurate Mass: 444.144285

Percentage Composition: C 56.76%; H 7.71%; I 28.56%; P 6.97%

Physical Description: Solid

Melting Point: Mp 240°

>>Derivative: Oxide

CAS Registry Number: 131266-79-0

Molecular Formula: C₂₀H₃₁OP

Molecular Weight: 318.438

Accurate Mass: 318.211252

Percentage Composition: C 75.44%; H 9.81%; O 5.02%; P 9.73%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 255-258° (251°)

>>Derivative: Sulfide

CAS Registry Number: 154147-23-6

Molecular Formula: C₂₀H₃₁PS

Molecular Weight: 334.505

Accurate Mass: 334.188407

Percentage Composition: C 71.81%; H 9.34%; P 9.26%; S 9.59%

Physical Description: Golden brown cryst.

Melting Point: Mp 142°

>>Derivative: Selenide

CAS Registry Number: 154147-25-8

Molecular Formula: C₂₀H₃₁PSe

Molecular Weight: 381.399

Accurate Mass: 382.132857

Percentage Composition: C 62.98%; H 8.19%; P 8.12%; Se 20.70%

Physical Description: Solid

Melting Point: Mp 241°

References: