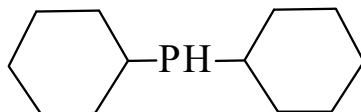




>>Entry Name: Dicyclohexylphosphine, 9Cl



CAS Registry Number: 829-84-5

Molecular Formula: C₁₂H₂₃P

Molecular Weight: 198.288

Accurate Mass: 198.153737

Percentage Composition: C 72.69%; H 11.69%; P 15.62%

Physical Description: Air-sensitive liq.

Boiling Point: Bp 281-283°. Bp₃ 105-108°

Refractive Index: n_D²⁵ 1.5142

Aldrich: 16356-2

>>Derivative: Hydroiodide

CAS Registry Number: 108248-53-9

Physical Description: Cryst. (PhCl)

Melting Point: Mp 243°

>>Derivative: Li salt

CAS Registry Number: 19966-81-5

Physical Description: Pale-yellow solid

Solubility: Insol. Et₂O, C₆H₆, petrol; sl. sol. dioxan

>>Derivative: Oxide

CAS Registry Number: 14717-29-4

Molecular Formula: C₁₂H₂₃OP

Molecular Weight: 214.287

Accurate Mass: 214.148652

Percentage Composition: C 67.26%; H 10.82%; O 7.47%; P 14.45%

Physical Description: Deliquescent cryst. (hexane or C₆H₆)

Melting Point: Mp 72.5-74.5°

Other Data: Tautomeric with Dicyclohexylphosphinous acid [DHB43-V](#)

>>Derivative: Sulfide

CAS Registry Number: 14610-03-8

Molecular Formula: C₁₂H₂₃PS

Molecular Weight: 230.353

Accurate Mass: 230.125807

Percentage Composition: C 62.57%; H 10.06%; P 13.45%; S 13.92%

Physical Description: Cryst. (EtOH or C₆H₆)

Melting Point: Mp 107-108°

Other Data: Tautomeric with Dicyclohexylphosphinous acid [DHB43-V](#)

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Niebergall, H. *et al.*, *Chem. Ber.*, 1962, **95**, 64, (*synth*)
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Klaeni, W. *et al.*, *Inorg. Chem.*, 1989, **28**, 3845, (*oxide, synth, ir, pmr*)