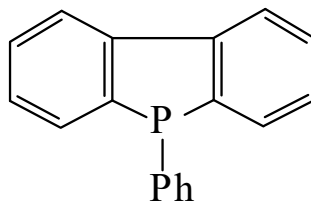




>>Entry Name: 5-Phenyl-5*H*-dibenzophosphole, 9CI

Synonym(s): 1-Phenyl-1*H*-benzo[*b*]phosphindole. 9-Phenyl-9-phosphafluorene



CAS Registry Number: 1088-00-2

Molecular Formula: C₁₈H₁₃P

Molecular Weight: 260.274

Accurate Mass: 260.075487

Percentage Composition: C 83.07%; H 5.03%; P 11.90%

Use/Importance: Ligand for group VIII metals

Melting Point: Mp 93.5-94°

>>Derivative: Methiodide

Synonym(s): 5-Methyl-5-phenyl-5*H*-dibenzophospholium iodide. 1-Methyl-1-phenyl-1*H*-benzo[*b*]phosphindolium iodide

Molecular Formula: C₁₉H₁₆IP

Molecular Weight: 402.214

Accurate Mass: 402.003435

Percentage Composition: C 56.74%; H 4.01%; I 31.55%; P 7.70%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 208-209°

>>Derivative: *P*-Ph, iodide

Synonym(s): 5,5-Diphenyl-5*H*-dibenzophospholium iodide. 1,1-Diphenyl-1*H*-benzo[*b*]phosphindolium iodide

CAS Registry Number: 53530-44-2

Molecular Formula: C₂₄H₁₈IP

Molecular Weight: 464.284

Accurate Mass: 464.019085

Percentage Composition: C 62.09%; H 3.91%; I 27.33%; P 6.67%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 264 dec.°

>>Derivative: Benzyl chloride

Synonym(s): 5-Benzyl-5-phenyl-5*H*-dibenzophospholium chloride. 1-Benzyl-1-phenyl-1*H*-benzo[*b*]phosphindolium chloride

Molecular Formula: C₂₅H₂₀ClP

Molecular Weight: 386.859

Accurate Mass: 386.099114

Percentage Composition: C 77.62%; H 5.21%; Cl 9.16%; P 8.01%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 294-296°

>>Derivative: 5-Oxide

CAS Registry Number: 1031-13-6

Molecular Formula: C₁₈H₁₃OP

Molecular Weight: 276.274

Accurate Mass: 276.070402

Percentage Composition: C 78.25%; H 4.74%; O 5.79%; P 11.21%

Physical Description: Cryst. (C₆H₆ or EtOH aq.)

Melting Point: Mp 167-168°