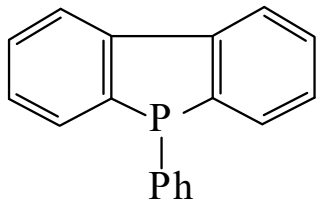
>>**Entry Name: 5-Phenyl-5*H*-dibenzophosphole,** 9CI
Synonym(s): 1-Phenyl-1*H*-benzo[*b*]phosphindole. 9-Phenyl-9-phosphafluorene



CAS Registry Number: 1088-00-2

Molecular Formula: $C_{18}H_{13}P$
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: $C_{19}H_{16}IP$
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: $C_{24}H_{18}IP$
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: $C_{25}H_{20}ClP$
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: $C_{18}H_{13}OP$
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. (C_6H_6 or EtOH aq.)
Melting Point: Mp 167-168°

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