>>**Entry Name: *O*-(Diphenylphosphinyl)hydroxylamine,** 9CI

CAS Registry Number: 72804-96-7
Type of Compound Code(s): AC6000
$Ph_2P(O)ONH_2$

Molecular Formula: $C_{12}H_{12}NO_2P$
Molecular Weight: 233.206
Accurate Mass: 233.060566
Percentage Composition: C 61.80%; H 5.19%; N 6.01%; O 13.72%; P 13.28%
General Statement: Formerly assigned the struct. $Ph_2P(O)NHOH$
Use/Importance: Reagent for *N*-aminations, and aminations at carbon of Na, Mg, and Li carbanions
Physical Description: Cryst. (MeOH)
Melting Point: Mp 130-135 dec.°
Solubility: Spar. sol. Et_2O, $CHCl_3$, CH_2Cl_2
Other Data: Can be stored at –40° for several months. Dec. by Me_2CO, DMSO

>>**Derivative:** *N*-Ac

Type of Compound Code(s): AC6000
Molecular Formula: $C_{14}H_{14}NO_3P$
Molecular Weight: 275.243
Accurate Mass: 275.071131
Percentage Composition: C 61.09%; H 5.13%; N 5.09%; O 17.44%; P 11.25%
Physical Description: Cryst. (CH_2Cl_2/Et_2O)
Melting Point: Mp 131-133°

>>**Derivative:** Acetone oxime
Synonym(s): 2-[(Diphenylphosphino)oxyimino]propane

Molecular Formula: $C_{15}H_{16}NO_2P$
Molecular Weight: 273.271
Accurate Mass: 273.091866
Percentage Composition: C 65.93%; H 5.90%; N 5.13%; O 11.71%; P 11.33%
Physical Description: Cryst. (CH_2Cl_2/Et_2O)
Melting Point: Mp 117-119°

References:

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