



>>Entry Name: *P*-Phenylphosphonous diamide

PhP(NH₂)₂

Molecular Formula: C₆H₉N₂P

Molecular Weight: 140.124

Accurate Mass: 140.050335

Percentage Composition: C 51.43%; H 6.47%; N 19.99%; P 22.10%

>>Derivative: *N,N'*-Di-Et

Synonym(s): *N,N'*-Diethyl-*P*-phenylphosphonous diamide. Phenylphosphonous bis(ethylamide)

CAS Registry Number: 774-49-2

Molecular Formula: C₁₀H₁₇N₂P

Molecular Weight: 196.231

Accurate Mass: 196.112935

Percentage Composition: C 61.21%; H 8.73%; N 14.28%; P 15.78%

Physical Description: Liq.

Melting Point: Mp 7.5°

Boiling Point: Bp_{0.001} 53-56°

Refractive Index: n_D²² 1.5486

>>Derivative: *N,N,N',N'*-Tetra-Me

Synonym(s): *N,N,N',N'*-Tetramethyl-*P*-phenylphosphonous diamide

CAS Registry Number: 6143-71-1

Molecular Formula: C₁₀H₁₇N₂P

Molecular Weight: 196.231

Accurate Mass: 196.112935

Percentage Composition: C 61.21%; H 8.73%; N 14.28%; P 15.78%

Physical Description: Liq.

Boiling Point: Bp₂ 58-60°

>>Derivative: *N,N,N',N'*-Tetra-Et

Synonym(s): *N,N,N',N'*-Tetraethyl-*P*-phenylphosphonous diamide. Phenylphosphonous bis(diethylamide)

CAS Registry Number: 1636-14-2

Molecular Formula: C₁₄H₂₅N₂P

Molecular Weight: 252.339

Accurate Mass: 252.175535

Percentage Composition: C 66.64%; H 9.99%; N 11.10%; P 12.27%

Physical Description: Liq.

Boiling Point: Bp₂ 113-116°

>>Derivative: *N,N'*-Diisopropyl

Synonym(s): *N,N'*-Diisopropyl-*P*-phenylphosphonous diamide. Phenylphosphonous di(isopropylamide). *N,N'*-Bis(1-methylethyl)-*P*-phenylphosphonous diamide

CAS Registry Number: 716-85-8

Physical Description: Liq. or solid

Melting Point: Mp 13.5-14.5°

Boiling Point: Bp_{0.001} 52°

Refractive Index: n_D²² 1.5289

>>Derivative: *N,N'*-Di-*tert*-butyl

Synonym(s): *N,N'*-Di-*tert*-butyl-*P*-phenylphosphonous diamide. Phenylphosphonous di(*tert*-butylamide). *N,N'*-Bis(1,1-dimethylethyl)-*P*-phenylphosphonous diamide

Physical Description: Liq. or solid

Melting Point: Mp 13.5-14.5°

Boiling Point: Bp_{0.001} 64-65°

Refractive Index: n_D²⁰ 1.5198