



>>Entry Name: Diphenylphosphinous acid, 9CI

CAS Registry Number: 24630-80-6

Type of Compound Code(s): AC0210 AC3000
Ph₂POH

Molecular Formula: C₁₂H₁₁OP

Molecular Weight: 202.192

Accurate Mass: 202.054752

Percentage Composition: C 71.28%; H 5.48%; O 7.91%; P 15.32%

General Statement: The free acid exists in the tautomeric phosphoryl form (see under Diphenylphosphine [GGJ81-T](#))

Physical Description: Cryst.

Melting Point: Mp 57°

>>Derivative: Me ester

Synonym(s): Methyl diphenylphosphinite

CAS Registry Number: 4020-99-9

Type of Compound Code(s): AC3040

Molecular Formula: C₁₃H₁₃OP

Molecular Weight: 216.219

Accurate Mass: 216.070402

Percentage Composition: C 72.22%; H 6.06%; O 7.40%; P 14.33%

Physical Description: Liq.

Boiling Point: Bp₁₀ 151-152°. Bp₄ 118-120°

Density: d₀¹⁵ 1.04

Refractive Index: n_D²⁰ 1.6038

Aldrich: 14949-7

>>Derivative: Et ester

Synonym(s): Ethyl diphenylphosphinite

CAS Registry Number: 719-80-2

Type of Compound Code(s): AC3040

Molecular Formula: C₁₄H₁₅OP

Molecular Weight: 230.246

Accurate Mass: 230.086052

Percentage Composition: C 73.03%; H 6.57%; O 6.95%; P 13.45%

Physical Description: Liq.

Boiling Point: Bp₁₇ 155-157°. Bp₃ 128-130°

Density: d₄²⁰ 1.075

Refractive Index: n_D²⁰ 1.5910

Aldrich: 14948-9

>>Derivative: Butyl ester

Synonym(s): Butyl diphenylphosphinite

CAS Registry Number: 13360-94-6

Type of Compound Code(s): AC3040

Molecular Formula: C₁₆H₁₉OP

Molecular Weight: 258.299

Accurate Mass: 258.117352

Percentage Composition: C 74.40%; H 7.41%; O 6.19%; P 11.99%

Physical Description: Liq.

Boiling Point: Bp₅ 174°. Bp₂ 127-128°

Density: d₄²⁰ 1.039

Refractive Index: n_D²⁰ 1.5733

Rare Chemicals Library: S43493-0