



>>Entry Name: Dimethylphosphinic acid

CAS Registry Number: 3283-12-3
Type of Compound Code(s): AC6000
Me2P(O)(OH)

Molecular Formula: C2H7O2P
Molecular Weight: 94.05
Accurate Mass: 94.018367
Percentage Composition: C 25.54%; H 7.50%; O 34.02%; P 32.93%
Melting Point: Mp 87.5-88.5°
pKa Value: pK_{a1} 3.08 (H₂O) pK_{a1} 4.72 (75% EtOH) pK_{a1} 13.18 (MeNO₂)

Aldrich: 32829-4

>>Derivative: NH₄ salt

CAS Registry Number: 51528-33-7
Physical Description: Cryst.
Melting Point: Mp 173 dec.°

>>Derivative: Me ester

Synonym(s): Methyl dimethylphosphinate

CAS Registry Number: 14337-77-0
Type of Compound Code(s): AC6040
Molecular Formula: C3H9O2P
Molecular Weight: 108.077
Accurate Mass: 108.034017
Percentage Composition: C 33.34%; H 8.39%; O 29.61%; P 28.66%
Physical Description: Liq.
Boiling Point: Bp₁₂ 78.5-79.5°
Refractive Index: n_D^{22} 1.4299

>>Derivative: Et ester

Synonym(s): Ethyl dimethylphosphinate

CAS Registry Number: 2511-19-5
Type of Compound Code(s): AC6040
Molecular Formula: C4H11O2P
Molecular Weight: 122.103
Accurate Mass: 122.049667
Percentage Composition: C 39.35%; H 9.08%; O 26.21%; P 25.37%
Physical Description: Liq.
Boiling Point: Bp₁₅ 88-89°
Density: d_4^{25} 1.03
Refractive Index: n_D^{25} 1.4261

>>Derivative: Ph ester

Synonym(s): Phenyl dimethylphosphinate

CAS Registry Number: 57244-61-8
Type of Compound Code(s): AC6040
Molecular Formula: C8H11O2P
Molecular Weight: 170.147
Accurate Mass: 170.049667
Percentage Composition: C 56.47%; H 6.52%; O 18.81%; P 18.20%
Physical Description: Liq.
Boiling Point: Bp₂₇ 164-166°