



>>Entry Name: Diethylphenylphosphine, 9CI

CAS Registry Number: 1605-53-4

Et₂PPh

Molecular Formula: C₁₀H₁₅P

Molecular Weight: 166.202

Accurate Mass: 166.091137

Percentage Composition: C 72.27%; H 9.10%; P 18.64%

Use/Importance: Ligand for metals of groups IB, IIB, VIB, VIIB, and VIII

Physical Description: Liq.

Boiling Point: Bp 221.9°. Bp₈ 95°. Bp₁₈ 105-106°

Density: d₄²⁰ 0.55

Refractive Index: n_D²⁰ 1.5458

Other Data: Air-sensitive

Aldrich: 38124-1

Fluka: 32445

>>Derivative: Oxide

CAS Registry Number: 24323-92-0

Molecular Formula: C₁₀H₁₅OP

Molecular Weight: 182.202

Accurate Mass: 182.086052

Percentage Composition: C 65.92%; H 8.30%; O 8.78%; P 17.00%

Physical Description: Solid

Melting Point: Mp 56°

Boiling Point: Bp₂ 150-152° (117-119°)

>>Derivative: Sulfide

CAS Registry Number: 14684-35-6

Molecular Formula: C₁₀H₁₅PS

Molecular Weight: 198.268

Accurate Mass: 198.063207

Percentage Composition: C 60.58%; H 7.63%; P 15.62%; S 16.17%

Physical Description: Pale-yellow viscous oil or solid

Melting Point: Mp 36-38°

Boiling Point: Bp₇ 165-167°. Bp_{0.8} 127°. Bp_{0.04} 95-96°

Refractive Index: n_D²⁵ 1.5891

>>Derivative: Selenide

Molecular Formula: C₁₀H₁₅PSe

Molecular Weight: 245.162

Accurate Mass: 246.007657

Percentage Composition: C 48.99%; H 6.17%; P 12.63%; Se 32.21%

Boiling Point: Bp_{0.7} 149°

Refractive Index: n_D²⁵ 1.6086

References: