



>>Entry Name: Triethylphosphine, 9CI, 8CI

Synonym(s): Phosphorus triethyl

CAS Registry Number: 554-70-1

Et₃P

Molecular Formula: C₆H₁₅P

Molecular Weight: 118.158

Accurate Mass: 118.091137

Percentage Composition: C 60.99%; H 12.80%; P 26.21%

Physical Description: Liq. with vile, nauseating odour

Boiling Point: Bp₇₄₅ 127°

Solubility: Misc. EtOH, Et₂O; insol. H₂O

pKa Value: pK_{a1} 8.69

Refractive Index: n_D¹⁸ 1.4580

Hazard & Toxicity: Forms explosive product by reacen. with O₂

Aldrich: 34617-9

Fluka: 91657

>>Derivative: Oxide

>>Derivative: Sulfide

>>Derivative: Selenide

CAS Registry Number: 21522-01-0

Molecular Formula: C₆H₁₅PSe

Molecular Weight: 197.118

Accurate Mass: 198.007657

Percentage Composition: C 36.56%; H 7.67%; P 15.71%; Se 40.06%

Physical Description: Cryst. (Et₂O or EtOH)

Melting Point: Mp 111°

>>Derivative: Telluride

CAS Registry Number: 2935-45-7

Molecular Formula: C₆H₁₅PTe

Molecular Weight: 245.758

Accurate Mass: 247.997366

Percentage Composition: C 29.32%; H 6.15%; P 12.60%; Te 51.92%

Physical Description: Golden-yellow cryst. (toluene/petrol)

Melting Point: Mp 76-78°

References: