



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

CAS Registry Number: 594-09-2

Me₃P

Molecular Formula: C₃H₉P

Molecular Weight: 76.078

Accurate Mass: 76.044187

Percentage Composition: C 47.36%; H 11.92%; P 40.71%

Melting Point: Mp −85°

Boiling Point: Bp 37.8°

Solubility: Insol. H₂O

pKa Value: pK_a 8.65 (H₂O)

Hazard & Toxicity: Emits highly toxic fumes on contact with acids. May ignite in air

Aldrich: 32332-2

Fluka: 92726

>>Derivative: Hydrochloride

CAS Registry Number: 10237-22-6

pKa Value: pK_a 8.8 (22°)

>>Derivative: Methiodide

>>Derivative: Sulfide

>>Derivative: Selenide

>>Derivative: Oxide

>>Derivative: Telluride

CAS Registry Number: 76773-16-5

Molecular Formula: C₃H₉PTe

Molecular Weight: 203.678

Accurate Mass: 205.950416

Percentage Composition: C 17.69%; H 4.45%; P 15.21%; Te 62.65%

Physical Description: Yellow cryst. (toluene at −50°)

Other Data: Rapidly oxidized in air → Te

References: