



>>Entry Name: Tripropylphosphine, 9CI

CAS Registry Number: 2234-97-1

$\text{P}(\text{CH}_2\text{CH}_2\text{CH}_3)_3$

Molecular Formula: $\text{C}_9\text{H}_{21}\text{P}$

Molecular Weight: 160.239

Accurate Mass: 160.138087

Percentage Composition: C 67.46%; H 13.21%; P 19.33%

Use/Importance: Forms Pt and Pd complexes

Physical Description: Air-sensitive liq.

Melting Point: Mp -83°

Boiling Point: Bp 187.5° . Bp₂₀ 81.8-81.9°

Hazard & Toxicity: Burns in CCl_4

Aldrich: 33697-1

>>Derivative: Methiodide

Synonym(s): Methyltripropylphosphonium iodide

Molecular Formula: $\text{C}_{10}\text{H}_{24}\text{IP}$

Molecular Weight: 302.178

Accurate Mass: 302.066035

Percentage Composition: C 39.75%; H 8.01%; I 42.00%; P 10.25%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 212-215°

>>Derivative: Oxide

CAS Registry Number: 1496-94-2

Molecular Formula: $\text{C}_9\text{H}_{21}\text{OP}$

Molecular Weight: 176.238

Accurate Mass: 176.133002

Percentage Composition: C 61.34%; H 12.01%; O 9.08%; P 17.57%

Physical Description: Cryst. (petrol)

Melting Point: Mp 39°

Boiling Point: Bp 260-265°. Bp₇ 120.3-120.5°

>>Derivative: Sulfide

CAS Registry Number: 13639-72-0

Molecular Formula: $\text{C}_9\text{H}_{21}\text{PS}$

Molecular Weight: 192.305

Accurate Mass: 192.110157

Percentage Composition: C 56.21%; H 11.01%; P 16.11%; S 16.67%

Boiling Point: Bp₁ 108-110°

Refractive Index: n_D^{27} 1.5071

>>Derivative: Selenide

CAS Registry Number: 93457-66-0

Molecular Formula: $\text{C}_9\text{H}_{21}\text{PSe}$

Molecular Weight: 239.199

Accurate Mass: 240.054607

Percentage Composition: C 45.19%; H 8.85%; P 12.95%; Se 33.01%

Physical Description: Solid

Melting Point: Mp 32°

Boiling Point: Bp_{0.95} 116°