



>>Entry Name: Isopropyldiphenylphosphine, 8CI
Synonym(s): (1-Methylethyl)diphenylphosphine, 9CI

CAS Registry Number: 6372-40-3

$\text{Ph}_2\text{PCH}(\text{CH}_3)_2$

Molecular Formula: $\text{C}_{15}\text{H}_{17}\text{P}$
Molecular Weight: 228.273
Accurate Mass: 228.106787
Percentage Composition: C 78.93%; H 7.51%; P 13.57%
Use/Importance: Ligand for Ni, Rh, Ir, and Group VIB metals
Physical Description: Cryst. or liq.
Melting Point: Mp 33°
Boiling Point: Bp₁₃ 165°. Bp_{0.5} 145-147°
Refractive Index: n_D²⁰ 1.6027
Other Data: Air-sensitive

Aldrich: 33692-0

>>Derivative: Methiodide
Synonym(s): Isopropylmethyldiphenylphosphonium iodide

Molecular Formula: $\text{C}_{16}\text{H}_{20}\text{IP}$
Molecular Weight: 370.212
Accurate Mass: 370.034735
Percentage Composition: C 51.91%; H 5.44%; I 34.28%; P 8.37%
Physical Description: Cryst. (CHCl_3 /petrol)
Melting Point: Mp 225-226°

>>Derivative: Oxide

CAS Registry Number: 2959-75-3

Molecular Formula: $\text{C}_{15}\text{H}_{17}\text{OP}$
Molecular Weight: 244.272
Accurate Mass: 244.101702
Percentage Composition: C 73.76%; H 7.01%; O 6.55%; P 12.68%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 145-146°

Aldrich: 45440-0

>>Derivative: Sulfide

CAS Registry Number: 66295-79-2

Molecular Formula: $\text{C}_{15}\text{H}_{17}\text{PS}$
Molecular Weight: 260.339
Accurate Mass: 260.078857
Percentage Composition: C 69.20%; H 6.58%; P 11.90%; S 12.32%
Physical Description: Cryst.
Melting Point: Mp 93°

>>Derivative: Selenide

Molecular Formula: $\text{C}_{15}\text{H}_{17}\text{PSe}$
Molecular Weight: 307.233
Accurate Mass: 308.023307
Percentage Composition: C 58.64%; H 5.58%; P 10.08%; Se 25.70%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 106°

References: