



>>Entry Name: Methyldiphenylphosphine, 9CI

CAS Registry Number: 1486-28-8

Related CAS Registry Numbers(s): 23182-99-2 52101-86-7

Ph₂PMe

Molecular Formula: C₁₃H₁₃P

Molecular Weight: 200.219

Accurate Mass: 200.075487

Percentage Composition: C 77.99%; H 6.54%; P 15.47%

Physical Description: Air-sensitive liq.

Boiling Point: Bp 284°. Bp_{2.2} 118-120°

Density: d₄²⁰ 1.08

Refractive Index: n_D²⁰ 1.6245

Other Data: Reacts with CCl₄

Aldrich: 24490-2

Fluka: 66642

>>Derivative: Methiodide

Synonym(s): Dimethyldiphenylphosphonium iodide

CAS Registry Number: 1017-88-5

Molecular Formula: C₁₄H₁₆IP

Molecular Weight: 342.159

Accurate Mass: 342.003435

Percentage Composition: C 49.15%; H 4.71%; I 37.09%; P 9.05%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 253-255°

Aldrich: 34659-4

Fluka: 40200

Rare Chemicals Library: S54326-8

>>Derivative: Oxide

CAS Registry Number: 2129-89-7

Molecular Formula: C₁₃H₁₃OP

Molecular Weight: 216.219

Accurate Mass: 216.070402

Percentage Composition: C 72.22%; H 6.06%; O 7.40%; P 14.33%

Use/Importance: Complexes with Gd, Mn, Mo, and Sn

Physical Description: Cryst. (hexane)

Melting Point: Mp 114-116° (111-112°)

Boiling Point: Bp_{0.5} 103-110°

Aldrich: 45442-7

>>Derivative: Sulfide

CAS Registry Number: 18639-74-2

Molecular Formula: C₁₃H₁₃PS

Molecular Weight: 232.285

Accurate Mass: 232.047557

Percentage Composition: C 67.22%; H 5.64%; P 13.33%; S 13.80%

Use/Importance: Complexes with Ir, Cr, and W

Physical Description: Liq.

Boiling Point: Bp_{1.5} 181°. Bp_{0.03} 150-152°

Refractive Index: n_D²⁵ 1.6515

>>Derivative: Selenide

CAS Registry Number: 23176-17-2