



>>Entry Name: Dimethylphenylphosphine, 9CI

CAS Registry Number: 672-66-2

Type of Compound Code(s): AC0300

Me₂PPh

Molecular Formula: C₈H₁₁P

Molecular Weight: 138.149

Accurate Mass: 138.059837

Percentage Composition: C 69.55%; H 8.03%; P 22.42%

Use/Importance: Ligand for Ti, V, and metals of groups IB, VIB, VIIB, and VIII

Physical Description: Liq.

Boiling Point: Bp 192°. Bp₁₄ 84°

Refractive Index: n_D²⁰ 1.5620

Other Data: Air-sensitive. Forms red adducts with polynitroaryls. Subl. at 100°/0.003 mm

Aldrich: 26502-0

Fluka: 41415

Rare Chemicals Library: S12092-8

>>Derivative: Methobromide

Synonym(s): Trimethylphenylphosphonium bromide

Type of Compound Code(s): AC0600

Molecular Formula: C₉H₁₄BrP

Molecular Weight: 233.087

Accurate Mass: 232.021648

Percentage Composition: C 46.38%; H 6.05%; Br 34.28%; P 13.29%

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 284-286°

>>Derivative: Oxide

CAS Registry Number: 10311-08-7

Type of Compound Code(s): AC0310

Molecular Formula: C₈H₁₁OP

Molecular Weight: 154.148

Accurate Mass: 154.054752

Percentage Composition: C 62.33%; H 7.19%; O 10.38%; P 20.09%

Use/Importance: Forms Gd, Fe, Mo and Ni complexes

Physical Description: Cryst. (toluene)

Melting Point: Mp 115°

>>Derivative: Sulfide

CAS Registry Number: 1707-00-2

Type of Compound Code(s): AC0330

Molecular Formula: C₈H₁₁PS

Molecular Weight: 170.215

Accurate Mass: 170.031907

Percentage Composition: C 56.45%; H 6.51%; P 18.20%; S 18.84%

Use/Importance: Forms Cu, Ir, and Rh complexes

Physical Description: Cryst. (EtOH or C₆H₆/petrol)

Melting Point: Mp 44°

Boiling Point: Bp_{0.12} 90°

>>Derivative: Selenide

CAS Registry Number: 51072-21-0

Type of Compound Code(s): AC0350

Molecular Formula: C₈H₁₁PSe

Molecular Weight: 217.109

Accurate Mass: 217.976357

Percentage Composition: C 44.26%; H 5.11%; P 14.27%; Se 36.37%

Physical Description: Oil