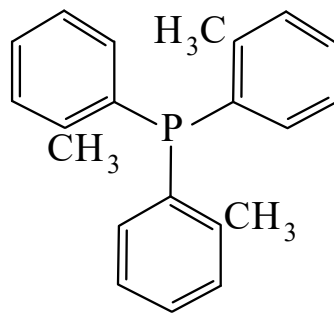




>>Entry Name: Tris(2-methylphenyl)phosphine, 9CI

Synonym(s): Tri-*o*-tolylphosphine, 8CI



CAS Registry Number: 6163-58-2

Molecular Formula: C₂₁H₂₁P

Molecular Weight: 304.371

Accurate Mass: 304.138087

Percentage Composition: C 82.87%; H 6.95%; P 10.18%

Use/Importance: Ligand for metals of Groups IB, VIB and VIII

Physical Description: Air-sensitive cryst. (EtOH)

Melting Point: Mp 125-128°

pKa Value: pK_a 3.08 (MeNO₂) pK_a 8.42 (MeNO₂)

Aldrich: 28782-2

Fluka: 93415

>>Derivative: Oxide

CAS Registry Number: 6163-63-9

Molecular Formula: C₂₁H₂₁OP

Molecular Weight: 320.37

Accurate Mass: 320.133002

Percentage Composition: C 78.73%; H 6.61%; O 4.99%; P 9.67%

Physical Description: Cryst. + ½ H₂O (EtOH)

Melting Point: Mp 153°

>>Derivative: Sulfide

CAS Registry Number: 6163-61-7

Molecular Formula: C₂₁H₂₁PS

Molecular Weight: 336.437

Accurate Mass: 336.110157

Percentage Composition: C 74.97%; H 6.29%; P 9.21%; S 9.53%

Use/Importance: Forms Cd, Hg, Pd, Pt, and Ta complexes

Physical Description: Cryst.

Melting Point: Mp 163°

>>Derivative: Selenide

CAS Registry Number: 32461-51-1

Molecular Formula: C₂₁H₂₁PSe

Molecular Weight: 383.331

Accurate Mass: 384.054607

Percentage Composition: C 65.80%; H 5.52%; P 8.08%; Se 20.60%

Physical Description: Solid

Melting Point: Mp 162-163°

References: