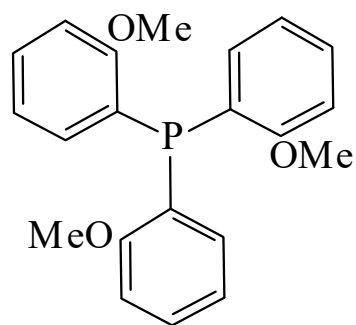




>>Entry Name: Tris(2-methoxyphenyl)phosphine, 9CI

Synonym(s): Tri-*o*-anisylphosphine



CAS Registry Number: 4731-65-1

Molecular Formula: C₂₁H₂₁O₃P

Molecular Weight: 352.369

Accurate Mass: 352.122832

Percentage Composition: C 71.58%; H 6.01%; O 13.62%; P 8.79%

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

Physical Description: Cryst. (EtOH, C₆H₆ or THF)

Melting Point: Mp 186°. Mp 204°

Rare Chemicals Library: S54316-0

>>Derivative: I₂ complex

Molecular Formula: C₂₁H₂₁I₂O₃P

Molecular Weight: 606.178

Accurate Mass: 605.931778

Percentage Composition: C 41.61%; H 3.49%; I 41.87%; O 7.92%; P 5.11%

Physical Description: Brown solid

Other Data: A charge-transfer complex

>>Derivative: Methiodide

Synonym(s): Tris(2-methoxyphenyl)methylphosphonium iodide. Tri-*o*-anisylmethylphosphonium iodide

Molecular Formula: C₂₂H₂₄IO₃P

Molecular Weight: 494.308

Accurate Mass: 494.05078

Percentage Composition: C 53.46%; H 4.89%; I 25.67%; O 9.71%; P 6.27%

Physical Description: Solid

Melting Point: Mp 212-213°

>>Derivative: Oxide

CAS Registry Number: 47467-89-0

Molecular Formula: C₂₁H₂₁O₄P

Molecular Weight: 368.368

Accurate Mass: 368.117747

Percentage Composition: C 68.47%; H 5.75%; O 17.37%; P 8.41%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 215-217°

Other Data: Subl. at 175°

>>Derivative: Sulfide

CAS Registry Number: 123317-11-3

Molecular Formula: C₂₁H₂₁O₃PS

Molecular Weight: 384.435

Accurate Mass: 384.094902

Percentage Composition: C 65.61%; H 5.51%; O 12.49%; P 8.06%; S 8.34%

Physical Description: Solid

Melting Point: Mp 230°

References: