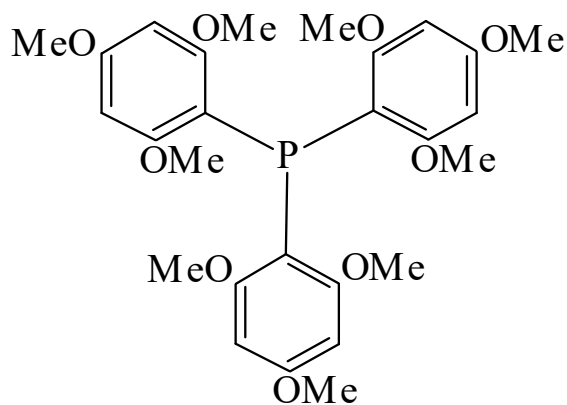




>>Entry Name: Tris(2,4,6-trimethoxyphenyl)phosphine, 9CI

Synonym(s): TTMP



CAS Registry Number: 91608-15-0

Molecular Formula: $C_{27}H_{33}O_9P$

Molecular Weight: 532.526

Accurate Mass: 532.186222

Percentage Composition: C 60.90%; H 6.25%; O 27.04%; P 5.82%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 146-147°. Mp 158-160°

Solubility: Insol. Et₂O

Other Data: Highly basic and nucleophilic. Forms a monohydrate

Aldrich: 39208-1

>>Derivative: Methiodide

Synonym(s): Tris(2,4,6-trimethoxyphenyl)methylphosphonium iodide

Molecular Formula: $C_{28}H_{36}IO_9P$

Molecular Weight: 674.465

Accurate Mass: 674.11417

Percentage Composition: C 49.86%; H 5.38%; I 18.82%; O 21.35%; P 4.59%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 175-176°

>>Derivative: Sulfide

CAS Registry Number: 135765-15-0

Molecular Formula: $C_{27}H_{33}O_9PS$

Molecular Weight: 564.592

Accurate Mass: 564.158292

Percentage Composition: C 57.44%; H 5.89%; O 25.50%; P 5.49%; S 5.68%

Physical Description: Cryst.

Melting Point: Mp 221°

>>Derivative: Selenide

CAS Registry Number: 103661-69-4

Molecular Formula: $C_{27}H_{33}O_9PSe$

Molecular Weight: 611.486

Accurate Mass: 612.102742

Percentage Composition: C 53.03%; H 5.44%; O 23.55%; P 5.07%; Se 12.91%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 199-200°

References:

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Wada, M. *et al.*, *J. Chem. Res., Synop.*, 1985, 38, (*synth, props*)

Allen, D.W. *et al.*, *J.C.S. Dalton*, 1985, 2505, (*selenide, P-31 nmr, Se-77 nmr*)

Allen, D.W. *et al.*, *Polyhedron*, 1990, **9**, 681, (*selenide, cryst struct*)

Wada, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1991, **64**, 1782, (*sulfide, synth, pmr, cmr*)

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