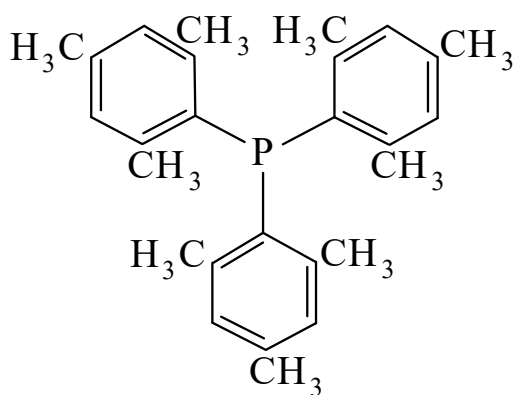




>>Entry Name: Tris(2,4,6-trimethylphenyl)phosphine, 9CI

Synonym(s): Trimesitylphosphine



CAS Registry Number: 23897-15-6

Related CAS Registry Numbers(s): 127705-83-3

Molecular Formula: C₂₇H₃₃P

Molecular Weight: 388.531

Accurate Mass: 388.231987

Percentage Composition: C 83.47%; H 8.56%; P 7.97%

Use/Importance: Ligand for Pt, Pd, Cu, Hg, Mo, Ru and Ag

Physical Description: Needles (EtOH or CHCl₃/EtOH)

Melting Point: Mp 191.5-193°

pK_a Value: pK_a 13.1 (MeNO₂)

Other Data: Triboluminescent. Readily metallated

Aldrich: 39508-0

>>Derivative: Hydrochloride

CAS Registry Number: 127705-84-4

Physical Description: Solid

Melting Point: Mp 330°

>>Derivative: Perchlorate

CAS Registry Number: 123497-64-3

Physical Description: Cryst. (MeCN/CHCl₃)

Other Data: Dec. at 266°

>>Derivative: Methiodide

Synonym(s): Methyltris(2,4,6-trimethylphenyl)phosphonium iodide

Molecular Formula: C₂₈H₃₆IP

Molecular Weight: 530.471

Accurate Mass: 530.159935

Percentage Composition: C 63.40%; H 6.84%; I 23.92%; P 5.84%

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 269°. Mp 315-317°

>>Derivative: Methyl tetrafluoroborate

Physical Description: Solid

Melting Point: Mp 320-323°