



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

CAS Registry Number: 85417-41-0

Molecular Formula: $C_{24}H_{27}O_6P$

Molecular Weight: 442.447

Accurate Mass: 442.154527

Percentage Composition: C 65.15%; H 6.15%; O 21.70%; P 7.00%

Use/Importance: Extractant for Fe(III), Au(III)

Aldrich: 39343-6

>>Derivative: Hydrochloride

CAS Registry Number: 123317-07-7

Physical Description: Cryst. + 2H₂O

Hazard & Toxicity: Causes sneezing

>>Derivative: Hydroiodide

CAS Registry Number: 129972-84-5

Molecular Formula: $C_{24}H_{28}IO_6P$

Molecular Weight: 570.36

Accurate Mass: 570.066825

Percentage Composition: C 50.54%; H 4.95%; I 22.25%; O 16.83%; P 5.43%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 215-217°

>>Derivative: Perchlorate

CAS Registry Number: 91608-20-7

Physical Description: Cryst. (EtOH)

>>Derivative: Oxide

CAS Registry Number: 120933-27-9

Molecular Formula: $C_{24}H_{27}O_7P$

Molecular Weight: 458.447

Accurate Mass: 458.149442

Percentage Composition: C 62.88%; H 5.94%; O 24.43%; P 6.76%

Physical Description: Solid

Melting Point: Mp 212-214°

Solubility: V. sol. H₂O (1 g in 8 cm³ at r.t.)

>>Derivative: Sulfide

CAS Registry Number: 123317-05-5

Molecular Formula: $C_{24}H_{27}O_6PS$

Molecular Weight: 474.513

Accurate Mass: 474.126597

Percentage Composition: C 60.75%; H 5.73%; O 20.23%; P 6.53%; S 6.76%

Physical Description: Cryst. (Me₂CO, EtOH or toluene)

Melting Point: Mp 206-108°

>>Derivative: Sulfide; hydrochloride

CAS Registry Number: 123317-08-8

Physical Description: Cryst. + 2.5H₂O

Melting Point: Mp 170-187 dec.°