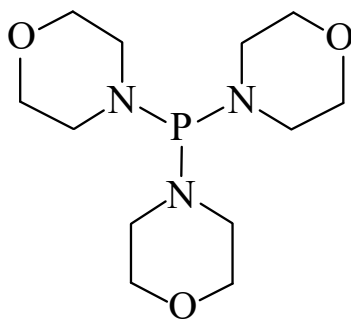




>>Entry Name: Tri-4-morpholinylphosphine

Synonym(s): 4,4',4''-Phosphinidynetrismorpholine, 9Cl. Tris(morpholino)phosphine. Trimorpholinophosphine



CAS Registry Number: 5815-61-2

Molecular Formula: $C_{12}H_{24}N_3O_3P$

Molecular Weight: 289.314

Accurate Mass: 289.155529

Percentage Composition: C 49.82%; H 8.36%; N 14.52%; O 16.59%; P 10.71%

Physical Description: Cryst. (C_6H_6 or MeCN)

Melting Point: Mp 157°

Rare Chemicals Library: S37401-6

>>Derivative: Methiodide

Synonym(s): Methyltris(morpholino)phosphonium iodide

Molecular Formula: $C_{13}H_{27}IN_3O_3P$

Molecular Weight: 431.253

Accurate Mass: 431.083477

Percentage Composition: C 36.21%; H 6.31%; I 29.43%; N 9.74%; O 11.13%; P 7.18%

Physical Description: Solid

Melting Point: Mp 310 dec.°

>>Derivative: Oxide

Synonym(s): 4,4',4''-Phosphinylidynetrismorpholine

CAS Registry Number: 4441-12-7

Molecular Formula: $C_{12}H_{24}N_3O_4P$

Molecular Weight: 305.313

Accurate Mass: 305.150444

Percentage Composition: C 47.21%; H 7.92%; N 13.76%; O 20.96%; P 10.14%

Physical Description: Solid

Melting Point: Mp 191-192°

Solubility: V. sol. H_2O , $CHCl_3$, sl. sol. CCl_4

Other Data: Dec. at 250°

Rare Chemicals Library: S39967-1

>>Derivative: Sulfide

Synonym(s): 4,4',4''-Phosphinothioylidynetrismorpholine

CAS Registry Number: 14129-98-7

Molecular Formula: $C_{12}H_{24}N_3O_3PS$

Molecular Weight: 321.38

Accurate Mass: 321.127599

Percentage Composition: C 44.85%; H 7.53%; N 13.07%; O 14.94%; P 9.64%; S 9.98%

Use/Importance: Insect sterilant

Physical Description: Solid

Melting Point: Mp 145.5-146°