



>>Entry Name: Tri-*tert*-butylphosphine, 8Cl
Synonym(s): Tris(1,1-dimethylethyl)phosphine, 9Cl

CAS Registry Number: 13716-12-6

$\text{P}[\text{C}(\text{CH}_3)_3]_3$

Molecular Formula: $\text{C}_{12}\text{H}_{27}\text{P}$
Molecular Weight: 202.319
Accurate Mass: 202.185037
Percentage Composition: C 71.24%; H 13.45%; P 15.31%
Physical Description: Liq. or solid
Melting Point: Mp 30°
Boiling Point: Bp₁₃ 102-103°

Aldrich: 33695-5

>>Derivative: *P*-Me

>>Derivative: Ethobromide
Synonym(s): Tri-*tert*-butylethylphosphonium bromide

Molecular Formula: $\text{C}_{14}\text{H}_{32}\text{BrP}$
Molecular Weight: 311.284
Accurate Mass: 310.162498
Percentage Composition: C 54.02%; H 10.36%; Br 25.67%; P 9.95%
Physical Description: Powder
Melting Point: Mp 241°

>>Derivative: Isopropyl bromide
Synonym(s): Tri-*tert*-butylisopropylphosphonium bromide

Molecular Formula: $\text{C}_{15}\text{H}_{34}\text{BrP}$
Molecular Weight: 325.311
Accurate Mass: 324.178148
Percentage Composition: C 55.38%; H 10.53%; Br 24.56%; P 9.52%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 197°

>>Derivative: Oxide

CAS Registry Number: 6866-70-2

Molecular Formula: $\text{C}_{12}\text{H}_{27}\text{OP}$
Molecular Weight: 218.318
Accurate Mass: 218.179952
Percentage Composition: C 66.02%; H 12.46%; O 7.33%; P 14.19%
Physical Description: Cryst. by subl.
Melting Point: Mp 77°
Solubility: V. sol. most org. solvs.
Other Data: Stable to 250°. Hygroscopic

>>Derivative: Sulfide

CAS Registry Number: 7441-04-5

Molecular Formula: $\text{C}_{12}\text{H}_{27}\text{PS}$
Molecular Weight: 234.385
Accurate Mass: 234.157107
Percentage Composition: C 61.49%; H 11.61%; P 13.21%; S 13.68%
Physical Description: Solid (petrol)
Melting Point: Mp 220°