



>>Entry Name: Tris(3-chlorophenyl)phosphine, 9Cl

CAS Registry Number: 29949-85-7

Molecular Formula: C₁₈H₁₂Cl₃P

Molecular Weight: 365.625

Accurate Mass: 363.974218

Percentage Composition: C 59.13%; H 3.31%; Cl 29.09%; P 8.47%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 67°

Rare Chemicals Library: S74197-3

>>Derivative: Oxide

CAS Registry Number: 54300-36-6

Molecular Formula: C₁₈H₁₂Cl₃OP

Molecular Weight: 381.624

Accurate Mass: 379.969133

Percentage Composition: C 56.65%; H 3.17%; Cl 27.87%; O 4.19%; P 8.12%

Physical Description: Cryst. (petrol)

Melting Point: Mp 135°

>>Derivative: Sulfide

CAS Registry Number: 54300-45-7

Molecular Formula: C₁₈H₁₂Cl₃PS

Molecular Weight: 397.691

Accurate Mass: 395.946288

Percentage Composition: C 54.36%; H 3.04%; Cl 26.74%; P 7.79%; S 8.06%

Physical Description: Solid

Melting Point: Mp 104°

>>Derivative: Selenide

CAS Registry Number: 54300-56-0

Molecular Formula: C₁₈H₁₂Cl₃PSe

Molecular Weight: 444.585

Accurate Mass: 443.890738

Percentage Composition: C 48.63%; H 2.72%; Cl 23.92%; P 6.97%; Se 17.76%

Physical Description: Solid

Melting Point: Mp 126° (66°)

References:

- Hoste, S. *et al.*, *J. Electron Spectrosc. Relat. Phenom.*, 1974, **5**, 227; 1979, **17**, 191, (*pe*)
De Ketelaere, R.F. *et al.*, *J. Mol. Struct.*, 1974, **23**, 233, (*derivs, ir, Raman*)
Van der Kelen, G.P. *et al.*, *J. Mol. Struct.*, 1974, **23**, 329, (*nqr*)
De Ketelaere, R.F. *et al.*, *J. Organomet. Chem.*, 1974, **73**, 251, (*ir, Raman*)
De Ketelaere, R.F. *et al.*, *Phosphorus Relat. Group V Elem.*, 1974, **5**, 43, (*derivs, ms*)
Shvets, A.A. *et al.*, *Zh. Obshch. Khim.*, 1976, **46**, 1701; 1981, **51**, 642; *J. Gen. Chem. USSR (Engl. Transl.)*, 1976, **46**, 1654; 1981, **51**, 512, (*derivs, ir*)
Grim, S.O. *et al.*, *Phosphorus Sulfur Relat. Elem.*, 1977, **3**, 191, (*synth, P-31 nmr*)
Goncharova, L.V. *et al.*, *Zh. Obshch. Khim.*, 1980, **50**, 321; 1981, **51**, 1450; *J. Gen. Chem. USSR (Engl. Transl.)*, 1980, **50**, 258; 1981, **51**, 1230, (*derivs, ir*)
Baliah, V. *et al.*, *Indian J. Chem., Sect. A*, 1990, **29**, 390, (*oxide, struct*)