



>>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:

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De Ketelaere, R.F. *et al.*, *J. Organomet. Chem.*, 1974, **73**, 251, (*ir, Raman*)

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Grim, S.O. *et al.*, *Phosphorus Sulfur Relat. Elem.*, 1977, **3**, 191, (*synth, P-31 nmr*)

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Baliah, V. *et al.*, *Indian J. Chem., Sect. A*, 1990, **29**, 390, (*oxide, struct*)