



>>Entry Name: Tris[4-(trifluoromethyl)phenyl]phosphine, 9Cl

CAS Registry Number: 13406-29-6

Molecular Formula: C₂₁H₁₂F₉P

Molecular Weight: 466.285

Accurate Mass: 466.053289

Percentage Composition: C 54.09%; H 2.59%; F 36.67%; P 6.64%

Use/Importance: Ligand for metals of Groups VIB, VIIB and VIII

Physical Description: Cryst. (EtOH)

Melting Point: Mp 68-70°. Mp 78-80°

Other Data: Air-sensitive

>>Derivative: Oxide

CAS Registry Number: 13406-27-4

Molecular Formula: C₂₁H₁₂F₉OP

Molecular Weight: 482.284

Accurate Mass: 482.048204

Percentage Composition: C 52.30%; H 2.51%; F 35.45%; O 3.32%; P 6.42%

Physical Description: Solid (hexane), needles (EtOH)

Melting Point: Mp 181-183°. Mp 191-193°

References:

Zhmurova, I.N. *et al.*, *Zh. Obshch. Khim.*, 1966, **36**, 1248; *J. Gen. Chem. USSR (Engl. Transl.)*, 1966, **36**, 1265, (*synth*)

Miller, G.R. *et al.*, *J. Chem. Phys.*, 1969, **51**, 3185, (*synth*, *F-19 nmr*, *P-31 nmr*)

Weiner, M.A. *et al.*, *J.O.C.*, 1975, **40**, 1292, (*pe*)

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

Casper, J.M. *et al.*, *Spectrochim. Acta A*, 1978, **34**, 1, (*oxide*, *ir*)

Eapen, K.C. *et al.*, *J. Fluorine Chem.*, 1980, **15**, 239, (*synth*, *oxide*, *ir*, *P-31 nmr*)

Brune, H.A. *et al.*, *Chem. Ber.*, 1984, **117**, 2791, (*synth*, *ir*, *pmr*)

Frohn, H.J. *et al.*, *J. Fluorine Chem.*, 1986, **34**, 73; 129, (*pmr*, *cmr*, *P-31 nmr*, *derivs*)

Chou, W.N. *et al.*, *J.O.C.*, 1991, **56**, 2762, (*synth*, *oxide*, *cmr*, *P-31 nmr*)