



>>Entry Name: Trimethylphosphine sulfide, 9Cl, 8Cl

CAS Registry Number: 2404-55-9

$\text{Me}_3\text{P}=\text{S}$

Molecular Formula: $\text{C}_3\text{H}_9\text{PS}$

Molecular Weight: 108.144

Accurate Mass: 108.016257

Percentage Composition: C 33.32%; H 8.39%; P 28.64%; S 29.65%

Use/Importance: Forms complexes with salts of Group IIIB and Group VIII metals

Physical Description: Cryst. (toluene, cyclohexane or EtOH)

Melting Point: Mp 155-156°

References:

Screttas, C. *et al.*, *J.O.C.*, 1962, **27**, 2573, (*synth*)

Harwood, H.J. *et al.*, *J.O.C.*, 1963, **28**, 3430, (*synth*)

Crofts, P.C. *et al.*, *J.C.S.(B)*, 1968, 1416, (*synth*)

Wilkins, C.J. *et al.*, *J.A.C.S.*, 1975, **97**, 6352, (*struct*)

Pantzer, R. *et al.*, *Z. Anorg. Allg. Chem.*, 1975, **416**, 297, (*ir, Raman*)

Elbel, S. *et al.*, *J.C.S. Dalton*, 1976, 1757, (*pe*)

Rojhantalab, H. *et al.*, *Spectrochim. Acta A*, 1976, **32**, 519, (*Raman*)

Albrand, J.P. *et al.*, *Chem. Phys. Lett.*, 1977, **48**, 524, (*cmr, P-31 nmr, struct*)

Haynes, R.K. *et al.*, *Aust. J. Chem.*, 1984, **37**, 1183, (*deriv*)

Schneider, W. *et al.*, *J. Phys. Chem.*, 1988, **92**, 5611, (*struct*)

Durig, J.R. *et al.*, *Inorg. Chem.*, 1989, **28**, 298, (*ir, Raman, microwave*)

Dolenko, G.N. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1990, 1345; *Bull. Acad. Sci. USSR, Div. Chem. Sci. (Engl. Transl.)*, 1990, 1211, (*fluorescence*)