



>>Entry Name: Methylenebis[phosphonic dichloride], 9CI

Synonym(s): Bis(dichlorophosphinyl)methane. Methanediphosphonic tetrachloride

CAS Registry Number: 1499-29-2

$\text{Cl}_2\text{P}(\text{O})\text{CH}_2\text{P}(\text{O})\text{Cl}_2$

Molecular Formula: $\text{CH}_2\text{Cl}_4\text{O}_2\text{P}_2$

Molecular Weight: 249.784

Accurate Mass: 247.828412

Percentage Composition: C 4.81%; H 0.81%; Cl 56.77%; O 12.81%; P 24.80%

Physical Description: Cryst. (C_6H_6 /petrol)

Melting Point: Mp 104-105° (98-100°)

Aldrich: 44771-4

References:

Maier, L., *Helv. Chim. Acta*, 1965, **48**, 133, (*synth, P-31 nmr*)

Kosolapoff, G.M. *et al.*, *J.C.S.(C)*, 1966, 757, (*synth*)

Sheldrick, W.S., *J.C.S. Dalton*, 1975, 943, (*cryst struct*)

Althoff, W. *et al.*, *Z. Naturforsch., B*, 1976, **31**, 153, (*cmr*)

Dagliesh, W.H. *et al.*, *J.C.S. Dalton*, 1977, 1505, (*nqr*)

Althoff, W. *et al.*, *Chem. Ber.*, 1981, **114**, 1082, (*synth*)

Fild, M. *et al.*, *Z. Anorg. Allg. Chem.*, 1988, **561**, 157, (*P-31 nmr, reactions*)