



>>Entry Name: [1,4-Phenylenebis[methylene]]bis[triphenylphosphonium](2+), 9Cl

Synonym(s): (*p*-Phenylenedimethylene)bis[triphenylphosphonium](2+), 8Cl. 4-Xylylenebis[triphenylphosphonium](2+)

Molecular Formula: C₄₄H₃₈P₂²⁽⁺⁾

Molecular Weight: 628.732

Accurate Mass: 628.244874

Percentage Composition: C 84.06%; H 6.09%; P 9.85%

Other Data: Reacts with NaOEt or LiOEt to give bis-ylide

>>Derivative: Dichloride

CAS Registry Number: 1519-47-7

Molecular Formula: C₄₄H₃₈Cl₂P₂

Molecular Weight: 699.637

Accurate Mass: 698.182578

Percentage Composition: C 75.54%; H 5.47%; Cl 10.13%; P 8.85%

Physical Description: Cryst. (DMF or EtOH), cryst. + 2H₂O (H₂O)

Melting Point: Mp 414° (400°)

Rare Chemicals Library: S57222-5

>>Derivative: Dibromide

CAS Registry Number: 40817-03-6

Molecular Formula: C₄₄H₃₈Br₂P₂

Molecular Weight: 788.54

Accurate Mass: 786.121546

Percentage Composition: C 67.02%; H 4.86%; Br 20.27%; P 7.86%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 340 dec.°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 548B, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 884A, (*nmr*)

Friedrich, K. *et al.*, *Chem. Ber.*, 1959, **92**, 2756, (*bromide*)

Campbell, T.W. *et al.*, *J.O.C.*, 1959, **24**, 730; 1246, (*chloride*)

Claerebondt, J. *et al.*, *Anal. Chim. Acta*, 1987, **195**, 343, (*dichloride, ms*)

Williams, D.H. *et al.*, *J.A.C.S.*, 1987, **109**, 1980, (*dibromide, ms*)

Aced, G. *et al.*, *J. Liq. Chromatogr.*, 1989, **12**, 3201, (*dichloride, hplc*)

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