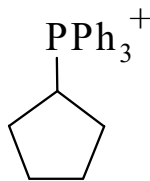




>>Entry Name: Cyclopentyltriphenylphosphonium(1+), 9Cl



CAS Registry Number: 111998-10-8

Related CAS Registry Numbers(s): 20262-18-4 56406-99-6

Molecular Formula: $C_{23}H_{24}P^{+}$

Molecular Weight: 331.416

Accurate Mass: 331.161562

Percentage Composition: C 83.36%; H 7.30%; P 9.35%

Other Data: $NaNH_2 \rightarrow$ ylide

>>Derivative: Chloride

CAS Registry Number: 122041-07-0

Molecular Formula: $C_{23}H_{24}ClP$

Molecular Weight: 366.869

Accurate Mass: 366.130414

Percentage Composition: C 75.30%; H 6.59%; Cl 9.66%; P 8.44%

Physical Description: No phys. props. reported

>>Derivative: Bromide

CAS Registry Number: 7333-52-0

Molecular Formula: $C_{23}H_{24}BrP$

Molecular Weight: 411.32

Accurate Mass: 410.099898

Percentage Composition: C 67.16%; H 5.88%; Br 19.43%; P 7.53%

Physical Description: Cryst. (H_2O)

Melting Point: Mp 263°

>>Derivative: Ylide

Synonym(s): Cyclopentylidenetriphenylphosphorane. Triphenylphosphonium cyclopentylide

CAS Registry Number: 21482-00-8

Molecular Formula: $C_{23}H_{23}P$

Molecular Weight: 330.408

Accurate Mass: 330.153737

Percentage Composition: C 83.61%; H 7.02%; P 9.37%

Use/Importance: Used in Wittig reactions

References:

Grim, S.O. *et al.*, *Chem. Comm.*, 1967, 1191, (bromide, nmr)

Bestmann, H.J. *et al.*, *Chem. Ber.*, 1969, **102**, 1802, (synth, use)

Albright, T.A. *et al.*, *J.A.C.S.*, 1975, **97**, 2942, (bromide, cmr, nmr)

Wheaton, G.A. *et al.*, *J.O.C.*, 1983, **48**, 917, (use)

Dauben, W.G. *et al.*, *J.O.C.*, 1984, **49**, 4293, (bromide)