



>>Entry Name: [(4-Nitrophenyl)methyl]triphenylphosphonium(1+), 9Cl

Synonym(s): (*p*-Nitrobenzyl)triphenylphosphonium(1+)

CAS Registry Number: 18583-39-6

Related CAS Registry Numbers(s): 106677-35-4

Molecular Formula: C₂₅H₂₁NO₂P⁽⁺⁾

Molecular Weight: 398.42

Accurate Mass: 398.130991

Percentage Composition: C 75.37%; H 5.31%; N 3.52%; O 8.03%; P 7.77%

Use/Importance: Salts are sources of [(4-Nitrophenyl)methylene]triphenylphosphorane [DLX54-H](#)

>>Derivative: Chloride

CAS Registry Number: 1530-42-3

Molecular Formula: C₂₅H₂₁ClNO₂P

Molecular Weight: 433.873

Accurate Mass: 433.099843

Percentage Composition: C 69.21%; H 4.88%; Cl 8.17%; N 3.23%; O 7.38%; P 7.14%

Physical Description: Needles (CCl₄/petrol)

Melting Point: Mp 278-280°

>>Derivative: Bromide

CAS Registry Number: 2767-70-6

Molecular Formula: C₂₅H₂₁BrNO₂P

Molecular Weight: 478.324

Accurate Mass: 477.069327

Percentage Composition: C 62.78%; H 4.43%; Br 16.70%; N 2.93%; O 6.69%; P 6.48%

Physical Description: Prisms (H₂O)

Melting Point: Mp 261-0 dec., 287-290°°

Aldrich: 39305-3

Rare Chemicals Library: S52728-9

>>Derivative: Ylide

References:

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

Ketcham, R. *et al.*, *J.O.C.*, 1962, **27**, 4666, (*chloride*)

Schiemenz, G.P., *Tetrahedron*, 1971, **27**, 5723, (*chloride, uv*)

Kroppová, V. *et al.*, *Coll. Czech. Chem. Comm.*, 1981, **46**, 515, (*bromide, use*)

Rafizadeh, K. *et al.*, *J.O.C.*, 1984, **49**, 1500, (*bromide, ir, pmr*)

van der Sluis, P. *et al.*, *Acta Cryst. C*, 1990, **46**, 1297, (*cryst struct*)