



>>Entry Name: [(4-Methylphenyl)methyl]triphenylphosphonium(1+), 9Cl
Synonym(s): (4-Methylbenzyl)triphenylphosphonium(1+). Triphenyl-*p*-xylylphosphonium(1+)

CAS Registry Number: 18583-38-5
Related CAS Registry Numbers(s): 41468-06-8 90807-73-1

Molecular Formula: C₂₆H₂₄P⁽⁺⁾
Molecular Weight: 367.449
Accurate Mass: 367.161562
Percentage Composition: C 84.99%; H 6.58%; P 8.43%

>>Derivative: Chloride

CAS Registry Number: 1530-37-6

Molecular Formula: C₂₆H₂₄ClP
Molecular Weight: 402.902
Accurate Mass: 402.130414
Percentage Composition: C 77.51%; H 6.00%; Cl 8.80%; P 7.69%
Use/Importance: Exhibits antitrypanosomal activity. Source of ylide
Physical Description: Cryst. (Me₂CO or EtOH)
Melting Point: Mp 248°. Mp 262-265°
Rare Chemicals Library: S62669-4

>>Derivative: Bromide

CAS Registry Number: 2378-86-1

Molecular Formula: C₂₆H₂₄BrP
Molecular Weight: 447.353
Accurate Mass: 446.099898
Percentage Composition: C 69.81%; H 5.41%; Br 17.86%; P 6.92%
Use/Importance: Source of ylide
Rare Chemicals Library: S36345-6

>>Derivative: Ylide

Synonym(s): [(4-Methylphenyl)methylene]triphenylphosphorane. *p*-Methylbenzylidenetriphenylphosphorane. Triphenylphosphonium (4-methylphenyl)methylide

CAS Registry Number: 39110-21-9

Molecular Formula: C₂₆H₂₃P
Molecular Weight: 366.441
Accurate Mass: 366.153737
Percentage Composition: C 85.22%; H 6.33%; P 8.45%
Use/Importance: Used in Wittig reactions

References:

- Griffin, C.E. *et al.*, *J. Organomet. Chem.*, 1965, **3**, 414, (*pmr*)
Leznoff, C.C. *et al.*, *Can. J. Chem.*, 1972, **50**, 528, (*use*)
Alper, H. *et al.*, *J. Organomet. Chem.*, 1972, **44**, 371, (*ylide, complexes*)
Yamato, M. *et al.*, *Chem. Pharm. Bull.*, 1977, **25**, 706, (*chloride, use*)
Knoppová, V. *et al.*, *Coll. Czech. Chem. Comm.*, 1981, **46**, 515, (*use*)
Taylor, T.G. *et al.*, *J.A.C.S.*, 1986, **108**, 6977, (*bromide, synth, pmr*)