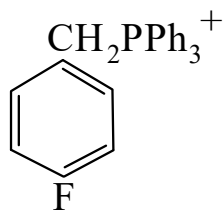




>>Entry Name: [(4-Fluorophenyl)methyl]triphenylphosphonium(1+), 9Cl

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



Related CAS Registry Numbers(s): 90501-01-2

Molecular Formula: C₂₅H₂₁FP⁽⁺⁾

Molecular Weight: 371.413

Accurate Mass: 371.13649

Percentage Composition: C 80.85%; H 5.70%; F 5.12%; P 8.34%

>>Derivative: Chloride

CAS Registry Number: 3462-95-1

Molecular Formula: C₂₅H₂₁ClFP

Molecular Weight: 406.866

Accurate Mass: 406.105342

Percentage Composition: C 73.80%; H 5.20%; Cl 8.71%; F 4.67%; P 7.61%

Use/Importance: Source of ylide with MeOLi

Physical Description: Solid

Melting Point: Mp 315-316°

Rare Chemicals Library: S77415-4

>>Derivative: Bromide

CAS Registry Number: 51044-11-2

Molecular Formula: C₂₅H₂₁BrFP

Molecular Weight: 451.317

Accurate Mass: 450.074826

Percentage Composition: C 66.53%; H 4.69%; Br 17.70%; F 4.21%; P 6.86%

Use/Importance: Source of ylide with butyllithium

Physical Description: Solid

Melting Point: Mp 300°

Rare Chemicals Library: S77414-6

>>Derivative: Ylide

Synonym(s): [(4-Fluorophenyl)methylene]triphenylphosphorane. (*p*-Fluorobenzylidene)triphenylphosphorane. Triphenylphosphonium (4-fluorophenyl)methylide

CAS Registry Number: 59625-60-4

Molecular Formula: C₂₅H₂₀FP

Molecular Weight: 370.405

Accurate Mass: 370.128665

Percentage Composition: C 81.07%; H 5.44%; F 5.13%; P 8.36%

Use/Importance: A Wittig reagent prepd. *in situ*

References:

Jones, R.A. *et al.*, *Aust. J. Chem.*, 1965, **18**, 903, (*chloride*)

Leznoff, C.C. *et al.*, *Can. J. Chem.*, 1972, **50**, 582, (*chloride, use*)

Yamato, M. *et al.*, *Chem. Pharm. Bull.*, 1977, **25**, 706, (*bromide, use*)