>>**Entry Name: Pentyltriphenylphosphonium(1+),** 9Cl
Synonym(s): Amyltriphenylphosphonium(1+)

CAS Registry Number: 47318-73-0
Related CAS Registry Numbers(s): 55317-64-1
$Ph_3P^{(+)}(CH_2)_4CH_3$

Molecular Formula: $C_{23}H_{26}P^{(+)}$
Molecular Weight: 333.432
Accurate Mass: 333.177212
Percentage Composition: C 82.85%; H 7.86%; P 9.29%

>>**Derivative:** Chloride

CAS Registry Number: 35171-60-9

Molecular Formula: $C_{23}H_{26}ClP$
Molecular Weight: 368.885
Accurate Mass: 368.146064
Percentage Composition: C 74.89%; H 7.10%; Cl 9.61%; P 8.40%
Physical Description: Solid
Melting Point: Mp 171-173°

>>**Derivative:** Bromide

CAS Registry Number: 21406-61-1

Molecular Formula: $C_{23}H_{26}BrP$
Molecular Weight: 413.336
Accurate Mass: 412.115548
Percentage Composition: C 66.83%; H 6.34%; Br 19.33%; P 7.49%
Physical Description: Cryst. (H_2O or CH_2Cl_2/Et_2O)
Melting Point: Mp 167-168°
Aldrich: 37751-1
Rare Chemicals Library: S61659-1

>>**Derivative:** Iodide

CAS Registry Number: 35171-55-2

Molecular Formula: $C_{23}H_{26}IP$
Molecular Weight: 460.337
Accurate Mass: 460.081685
Percentage Composition: C 60.01%; H 5.69%; I 27.57%; P 6.73%
Physical Description: Solid
Melting Point: Mp 170°

>>**Derivative:** Ylide
Synonym(s): Pentylidenetriphenylphosphorane. Triphenylphosphonium pentylide

CAS Registry Number: 29541-98-8

Molecular Formula: $C_{23}H_{25}P$
Molecular Weight: 332.424
Accurate Mass: 332.169387
Percentage Composition: C 83.10%; H 7.58%; P 9.32%
Use/Importance: Reactive Wittig reagent, prepd. *in situ*

>>**Derivative:** Ylide, BH_3 complex

Molecular Formula: $C_{23}H_{28}BP$
Molecular Weight: 346.259
Accurate Mass: 346.202167
Percentage Composition: C 79.78%; H 8.15%; B 3.12%; P 8.95%
Physical Description: Solid
Melting Point: Mp 126°

References: