



>>Entry Name: Triphenyl(tetradecyl)phosphonium(1+), 9Cl, 8Cl

Related CAS Registry Numbers(s): 96854-03-4

$\text{Ph}_3\text{P}^{(+)}(\text{CH}_2)_{13}\text{CH}_3$

Molecular Formula: $\text{C}_{32}\text{H}_{44}\text{P}^{(+)}$

Molecular Weight: 459.673

Accurate Mass: 459.318062

Percentage Composition: C 83.61%; H 9.65%; P 6.74%

>>Derivative: Bromide

CAS Registry Number: 25791-20-2

Molecular Formula: $\text{C}_{32}\text{H}_{44}\text{BrP}$

Molecular Weight: 539.577

Accurate Mass: 538.256398

Percentage Composition: C 71.23%; H 8.22%; Br 14.81%; P 5.74%

Use/Importance: Ylide source with RLi

Physical Description: Cryst. ($\text{Me}_2\text{CO}/\text{Et}_2\text{O}$)

Melting Point: Mp 94-96°

>>Derivative: Ylide

Synonym(s): Triphenyltetradecylidenephosphorane. Triphenylphosphonium tetradecylide

CAS Registry Number: 96854-01-2

Molecular Formula: $\text{C}_{32}\text{H}_{43}\text{P}$

Molecular Weight: 458.665

Accurate Mass: 458.310237

Percentage Composition: C 83.80%; H 9.45%; P 6.75%

Use/Importance: Used in Wittig reactions leading to fatty acid esters

References:

Reist, E.J. *et al.*, *J.O.C.*, 1970, **35**, 3521, (*use, synth*)

Chasin, D.G. *et al.*, *Chem. Phys. Lipids*, 1971, **6**, 8, (*synth, use*)