



>>Entry Name: Triphenyl[3-(trimethylsilyl)-2-propynyl]phosphonium(1+), 9CI

Synonym(s): Triphenyl(trimethylsilylpropargyl)phosphonium(1+)

CAS Registry Number: 135544-91-1

$[\text{Me}_3\text{SiC}\equiv\text{CCH}_2\text{PPh}_3]^{(+)}$

Molecular Formula: $\text{C}_{24}\text{H}_{26}\text{PSi}^{(+)}$

Molecular Weight: 373.529

Accurate Mass: 373.154139

Percentage Composition: C 77.17%; H 7.02%; P 8.29%; Si 7.52%

>>Derivative: Bromide

CAS Registry Number: 42134-49-6

Molecular Formula: $\text{C}_{24}\text{H}_{26}\text{BrPSi}$

Molecular Weight: 453.433

Accurate Mass: 452.092475

Percentage Composition: C 63.57%; H 5.78%; Br 17.62%; P 6.83%; Si 6.19%

Source/Synthesis: Synth. from $\text{Me}_3\text{SiC}\equiv\text{CCH}_2\text{Br}$ + PPh_3

Use/Importance: Reagent in Wittig reactions

Physical Description: Cryst.

Melting Point: Mp 155-159°. Mp 173-175° (dec.)

References:

Ahmed, M. *et al.*, *J.C.S. Perkin 1*, 1974, 1981-1987, (*synth*)

Eiter, K. *et al.*, *Annalen*, 1978, 658-674, (*synth, pmr*)