



>>Entry Name: (Diphenylmethyl)triphenylphosphonium(1+), 9Cl

Related CAS Registry Numbers(s): 1530-43-4

$\text{Ph}_3\text{P}^{(+)}\text{CHPh}_2$

Molecular Formula: $\text{C}_{31}\text{H}_{26}\text{P}^{(+)}$

Molecular Weight: 429.52

Accurate Mass: 429.177212

Percentage Composition: C 86.69%; H 6.10%; P 7.21%

>>Derivative: Bromide

CAS Registry Number: 7333-65-5

Type of Compound Code(s): AC0600

Molecular Formula: $\text{C}_{31}\text{H}_{26}\text{BrP}$

Molecular Weight: 509.424

Accurate Mass: 508.115548

Percentage Composition: C 73.09%; H 5.14%; Br 15.69%; P 6.08%

Use/Importance: Source of (Diphenylmethylene)triphenylphosphorane [DSH50-Y](#)

Physical Description: Cryst. ($\text{CHCl}_3/\text{EtOAc}$ or MeOH aq.)

Melting Point: Mp 227-228 dec.°

Other Data: NaH, NaOEt or $\text{NaN}(\text{SiMe}_3)_2 \rightarrow$ ylide

>>Derivative: Ylide

see (Diphenylmethylene)triphenylphosphorane, [DSH50-Y](#)

References:

Horner, L. *et al.*, *Annalen*, 1955, **591**, 135, (*synth, props*)

Tewari, R.S. *et al.*, *Z. Naturforsch., B*, 1975, **30**, 513, (*synth*)