



>>Entry Name: Dodecyltriphenylphosphonium(1+), 9Cl

Related CAS Registry Numbers(s): 54208-03-6 84902-22-7 123966-50-7 125792-16-7

Type of Compound Code(s): XA1550 XA1150

$\text{Ph}_3\text{P}^{(+)}(\text{CH}_2)_{11}\text{CH}_3$

Molecular Formula: $\text{C}_{30}\text{H}_{40}\text{P}^{(+)}$

Molecular Weight: 431.62

Accurate Mass: 431.286762

Percentage Composition: C 83.48%; H 9.34%; P 7.18%

Use/Importance: Topical antifungal agent

>>Derivative: Bromide

Synonym(s): Nycal. Myxal-Losung. DTPB. D 305

CAS Registry Number: 15510-55-1

Type of Compound Code(s): AC0600

Molecular Formula: $\text{C}_{30}\text{H}_{40}\text{BrP}$

Molecular Weight: 511.524

Accurate Mass: 510.225098

Percentage Composition: C 70.44%; H 7.88%; Br 15.62%; P 6.06%

Physical Description: Hygroscopic cryst. (EtOAc/Et₂O)

Melting Point: Mp 87-88°. Mp 98-99°

Other Data: NaH or butyllithium → ylide

Aldrich: 17262-6

Rare Chemicals Library: S45573-3

>>Derivative: Pentachlorophenol salt (1:1)

Synonym(s): Pentaphonate. Claraphos

CAS Registry Number: 24360-58-5

Type of Compound Code(s): XA1150

Use/Importance: Antibacterial agent

Physical Description: Viscous brown oil

>>Derivative: Ylide

Synonym(s): Dodecylidenetriphenylphosphorane. Triphenylphosphonium dodecylide

CAS Registry Number: 54208-04-7

Type of Compound Code(s): AC0800

Molecular Formula: $\text{C}_{30}\text{H}_{39}\text{P}$

Molecular Weight: 430.612

Accurate Mass: 430.278937

Percentage Composition: C 83.68%; H 9.13%; P 7.19%

Use/Importance: Used in Wittig reaction

Physical Description: Red

References:

- Jerchel, M. *et al.*, *Chem. Ber.*, 1950, **83**, 277, (*synth*)
Kimmig, J. *et al.*, *Klin. Wochenschr.*, 1950, **28**, 429, (*pharmacol*)
Ger. Pat., 1954, 920 726; *CA*, **53**, 291, (*Pentaphonate*)
Jerchel, D. *et al.*, *Z. Naturforsch., B*, 1961, **16**, 85, (*props*)
Chasin, D.G. *et al.*, *Chem. Phys. Lipids*, 1971, **6**, 8, (*synth, use*)
Bestmann, H.J. *et al.*, *Angew. Chem., Int. Ed.*, 1976, **15**, 298, (*use*)
Lie Ken Jie, M.S.F. *et al.*, *Chem. Phys. Lipids*, 1978, **21**, 275, (*use*)
Ku, T.W. *et al.*, *J. Med. Chem.*, 1985, **28**, 1847, (*synth*)