



>>Entry Name: 1-(Triphenylphosphoranylidene)-2-propanone, 9Cl

Synonym(s): Acetonylidenetriphenylphosphorane, 8Cl. Acetylmethylidenetriphenylphosphorane. Triphenylphosphoranylideneacetone. Triphenylphosphonium 2-oxopropylide

CAS Registry Number: 1439-36-7

Related CAS Registry Numbers(s): 29942-64-1

$\text{Ph}_3\text{P}=\text{CHCOCH}_3$

Molecular Formula: $\text{C}_{21}\text{H}_{19}\text{OP}$

Molecular Weight: 318.354

Accurate Mass: 318.117352

Percentage Composition: C 79.23%; H 6.02%; O 5.03%; P 9.73%

Use/Importance: Wittig reagent

Physical Description: Cryst. (EtOAc or MeOH aq.)

Melting Point: Mp 210-211° (205-206°)

Aldrich: 15875-5

Fluka: 1340

Sigma: T6024

>>Derivative: Hydrochloride

>>Derivative: Hydrobromide

>>Derivative: Hydroiodide

>>Derivative: Tetrafluoroborate

References:

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Dale, A.J. *et al.*, *Acta Chem. Scand.*, 1970, **24**, 3772, (*ir, struct*)
Gara, A.P. *et al.*, *Aust. J. Chem.*, 1970, **23**, 307, (*ms*)
Wilson, I.F. *et al.*, *J.C.S. Perkin I*, 1972, 31, (*pmr, struct*)
Cooke, M.P., *J.O.C.*, 1973, **38**, 4082, (*deriv, use*)
Alexander, R.G. *et al.*, *Org. Mass Spectrom.*, 1973, **7**, 963, (*ms*)
Albright, T.A. *et al.*, *J.A.C.S.*, 1976, **98**, 6249, (*cmr, P-31 nmr*)
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