



>>Entry Name: **2-(Triphenylphosphoranylidene)propanal**, 9CI

Synonym(s): 2-(Triphenylphosphoranylidene)propionaldehyde, 8CI. (1-Formylethylidene)triphenylphosphorane

CAS Registry Number: 24720-64-7

$\text{Ph}_3\text{P}=\text{C}(\text{CH}_3)\text{CHO}$

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: Stabilised ylide used in polyene synth.

Physical Description: Cryst. (C_6H_6 /petrol)

Melting Point: Mp 220-222°

Other Data: Forms complex contg. Fe. Exists largely in transoid form in CHCl_3

Aldrich: 37437-7

References:

Trippett, S. *et al.*, *J.C.S.*, 1961, 1266, (*synth*)

Dale, A.J. *et al.*, *Acta Chem. Scand.*, 1970, **24**, 3772, (*ir*, *pmr*)

Wilson, I.F. *et al.*, *J.C.S. Perkin I*, 1972, 31, (*uv*)

Demole, E. *et al.*, *Helv. Chim. Acta*, 1973, **56**, 2053, (*use*)

Le Corre, M., *Tet. Lett.*, 1974, 1037, (*use*)

Bestmann, H.J., *Chem. Ber.*, 1984, **117**, 1561, (*synth*, *ir*, *pmr*)