



>>Entry Name: Methyl triphenylphosphoranylideneacetate, 9CI, 8CI

Synonym(s): Carbomethoxymethylidenetriphenylphosphorane. Triphenylphosphonium (2-methoxy-2-oxoethylide)

CAS Registry Number: 2605-67-6

Related CAS Registry Numbers(s): 21204-67-1

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

Molecular Formula: $\text{C}_{21}\text{H}_{19}\text{O}_2\text{P}$

Molecular Weight: 334.354

Accurate Mass: 334.112267

Percentage Composition: C 75.44%; H 5.73%; O 9.57%; P 9.26%

Use/Importance: Wittig reagent

Physical Description: Thick prisms (EtOAc/petrol)

Melting Point: Mp 169-169.5° (159-160°)

Other Data: Can be subl.

Aldrich: 15792-9

Fluka: 64941

Rare Chemicals Library: S12037-5

>>Derivative: Hydrochloride

>>Derivative: Hydroiodide

>>Derivative: Tetrafluoroborate

>>Derivative: Perchlorate

References:

- Aldrich Library of FT-IR Spectra*, 1st edn., 1985, **2**, 550A, (*ir*)
Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **2**, 1680A, (*nmr*)
Issler, O. *et al.*, *Helv. Chim. Acta*, 1957, **40**, 1242, (*synth, uv, use*)
Bestmann, H.J. *et al.*, *Chem. Ber.*, 1962, **95**, 2921, (*use*)
Matthews, C.N. *et al.*, *Tet. Lett.*, 1966, 5707, (*P-31 nmr*)
Bestmann, H.J. *et al.*, *J.A.C.S.*, 1967, **89**, 3936, (*pmr*)
Cooks, R.G. *et al.*, *Tetrahedron*, 1968, **24**, 3289, (*ms*)
Ayrey, G. *et al.*, *J. Labelled Compd. Radiopharm.*, 1978, **14**, 935, (*synth*)
Lang, R.W. *et al.*, *Helv. Chim. Acta*, 1979, **62**, 1025; 1980, **63**, 438, (*synth, use*)
Doleschall, G., *Synthesis*, 1981, 478, (*use*)
Kayser, M.H. *et al.*, *Can. J. Chem.*, 1990, **68**, 2123, (*pmr, cmr, P-31 nmr, struct*)
Boyle, P.D. *et al.*, *Acta Cryst. C*, 1996, **52**, 2859, (*cryst struct*)