



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

Synonym(s): Carbethoxymethylidenetriphenylphosphorane. Triphenylphosphonium 2-ethoxy-2-oxoethylide. Ethyl triphenylphosphonoacetate

CAS Registry Number: 1099-45-2

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

Molecular Formula: $\text{C}_{22}\text{H}_{21}\text{O}_2\text{P}$

Molecular Weight: 348.38

Accurate Mass: 348.127917

Percentage Composition: C 75.85%; H 6.08%; O 9.19%; P 8.89%

Use/Importance: Reagent used in Wittig reactions giving alkenes and also in reactions leading to acetylenic compds. Used in synth. of α -alkylated pyrrolidines or piperidines

Physical Description: Leaflets (EtOAc/petrol or C_6H_6 /petrol)

Melting Point: Mp 116-117°. Mp 129-130°

Aldrich: C510-6

Fluka: 2595

>>Derivative: Hydrochloride

see (2-Ethoxy-2-oxoethyl)triphenylphosphonium(1+), [GGR72-F](#)

>>Derivative: Hydrobromide

see (2-Ethoxy-2-oxoethyl)triphenylphosphonium(1+), [GGR72-F](#)

References:

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Gremenitskaya, V.N. *et al.*, *Zh. Org. Khim.*, 1979, **15**, 2090; *J. Gen. Chem. USSR (Engl. Transl.)*, 1979, **15**, 1889, (use)

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Anderson, J.R. *et al.*, *J.C.S. Perkin I*, 1985, 1481, (synth, use)

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