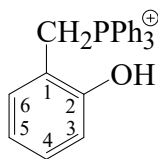




>>Entry Name: [(2-Hydroxyphenyl)methyl]triphenylphosphonium(1+), 9Cl

Synonym(s): (*o*-Hydroxybenzyl)triphenylphosphonium(1+), 8Cl



Molecular Formula: C₂₅H₂₂OP⁽⁺⁾

Molecular Weight: 369.422

Accurate Mass: 369.140827

Percentage Composition: C 81.28%; H 6.00%; O 4.33%; P 8.38%

Use/Importance: Precursor for benzofuran synth.

>>Derivative: Bromide

CAS Registry Number: 70340-04-4

Molecular Formula: C₂₅H₂₂BrOP

Molecular Weight: 449.326

Accurate Mass: 448.079163

Percentage Composition: C 66.83%; H 4.93%; Br 17.78%; O 3.56%; P 6.89%

Use/Importance: Source of ylide

Physical Description: Solid

Melting Point: Mp 246-248°

Aldrich: 21629-1

>>Derivative: Ylide

Synonym(s): [(2-Hydroxyphenyl)methyl]triphenylphosphorane. (*o*-Hydroxybenzylidene)triphenylphosphorane. 2,2,2,3-Tetrahydro-2,2,2-triphenyl-1,2-benzoxaphosphole

CAS Registry Number: 70340-09-9

Molecular Formula: C₂₅H₂₁OP

Molecular Weight: 368.414

Accurate Mass: 368.133002

Percentage Composition: C 81.50%; H 5.75%; O 4.34%; P 8.41%

Use/Importance: Used in Wittig reactions

Other Data: Tautomeric with the cyclic form

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 548A, (*ir*)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1676C, (*nmr*)

Begasse, B. *et al.*, *Tetrahedron*, 1980, **36**, 3409-3412, (*use*)

Hercouet, A. *et al.*, *Tetrahedron*, 1981, **37**, 2867-2873, (*synth, use*)

Capuano, L. *et al.*, *Chem. Ber.*, 1986, **119**, 2069-2074, (*bromide, synth, use*)