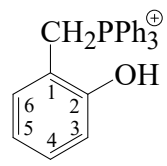
>>**Entry Name: [(2-Hydroxyphenyl)methyl]triphenylphosphonium(1+),** 9CI
Synonym(s): (*o*-Hydroxybenzyl)triphenylphosphonium(1+), 8CI



Molecular Formula: $C_{25}H_{22}OP^{(+)}$
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: $C_{25}H_{22}BrOP$
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: $C_{25}H_{21}OP$
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)*