

# Bis(2-ethylhexyl) hydrogen phosphite

**Other names:**

Bis(2-ethyl-1-hexyl) phosphite  
Bis(2-ethylhexyl) phosphite  
Phosphonic acid, bis(2-ethylhexyl) ester  
Bis(2-ethylhexyl) phosphonate  
Di-2-ethylhexyl phosphite  
Phosphorous acid, bis(2-ethylhexyl) ester  
Phosphonic acid, di-2-ethyl hexyl ester  
Bis(2-ethylhexyl) phosphonic acid  
Chelex H 8  
Di-2-ethylhexyl hydrogen phosphite  
NSC 2664

**Inchi:**

InChI=1S/C16H35O3P/c1-5-9-11-15(7-3)13-18-20(17)19-14-16(8-4)12-10-6-2/h15-16,20

**InchiKey:**

HZIUHEQKVCPTAJ-UHFFFAOYSA-N

**Formula:**

C16H35O3P

**SMILES:**

CCCCC(CC)CO[PH](=O)OCC(CC)CCCC

**Mol. weight [g/mol]:**

306.42

**CAS:**

3658-48-8

## Physical Properties

Property code	Value	Unit	Source
log10ws	-6.67		Crippen Method
logp	5.842		Crippen Method
mcvol	274.370	ml/mol	McGowan Method

## Sources

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C3658488&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

# Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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