

# Di-isobutyl hydrogen phosphate

**Other names:** Diisobutylphosphite  
**Inchi:** InChI=1S/C8H19O3P/c1-7(2)5-10-12(9)11-6-8(3)4/h7-8,12H,5-6H2,1-4H3  
**InchiKey:** FDFUDZVGGRIXEX-UHFFFAOYSA-N  
**Formula:** C8H19O3P  
**SMILES:** CC(C)CO[PH](=O)OCC(C)C  
**Mol. weight [g/mol]:** 194.21  
**CAS:** 1189-24-8

## Physical Properties

Property code	Value	Unit	Source
log10ws	-3.32		Crippen Method
logp	2.721		Crippen Method
mcvol	161.650	ml/mol	McGowan Method
tb	508.50 ± 0.50	K	NIST Webbook

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	385.00 ± 1.00	K	1.70	NIST Webbook

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1189248&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307I>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

# Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure

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