

Diethyl-n-propylphosphonate

Other names:	Phosphonic acid, propyl-, diethyl ester Diethoxypropylphosphine oxide Diethyl propanephosphonate Diethyl propylphosphonate O,O-Diethyl propylphosphonate Phosphonic acid, P-propyl-, diethyl ester Propanphosphonsäurediethylester
Inchi:	InChI=1S/C7H17O3P/c1-4-7-11(8,9-5-2)10-6-3/h4-7H2,1-3H3
InchiKey:	RUIKOPXSCCGLOM-UHFFFAOYSA-N
Formula:	C7H17O3P
SMILES:	CCCP(=O)(OCC)OCC
Mol. weight [g/mol]:	180.18
CAS:	18812-51-6

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.20		Crippen Method
logp	2.663		Crippen Method
mcvol	147.560	ml/mol	McGowan Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18812516&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	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

Latest version available from:

<https://www.cheméo.com/cid/67-057-5/Diethyl-n-propylphosphonate.pdf>

Generated by Cheméo on 2025-12-05 13:15:47.157299794 +0000 UTC m=+4688744.687340458.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.