

Tetraethyl dimethylaminomethylene diphosphonate

Other names:	Phosphonic acid, [(dimethylamino)methylene]bis-, tetraethyl ester tetraethyl [(dimethylamino)methylene]bisphosphonate
Inchi:	InChI=1S/C11H27NO6P2/c1-7-15-19(13,16-8-2)11(12(5)6)20(14,17-9-3)18-10-4/h11H,7
InchiKey:	SQDDGOVNJMIFFT-UHFFFAOYSA-N
Formula:	C11H27NO6P2
SMILES:	CCOP(=O)(OCC)C(N(C)C)P(=O)(OCC)OCC
Mol. weight [g/mol]:	331.29

Physical Properties

Property code	Value	Unit	Source
hvap	81.91	kJ/mol	Cheméo Relay (1.0)
ie	8.31	eV	Cheméo Relay (1.0)
log10ws	-1.51		Cheméo Relay (1.0)
logp	3.364		Crippen Method
mcvol	251.970	ml/mol	McGowan Method
tb	603.73	K	Cheméo Relay (1.0)
tf	237.80	K	Cheméo Relay (1.0)

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18855522&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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