

Amiton

Other names:	O,O-Diethyl S-[2-diethylaminoethyl]phosphorothioate Phosphorothioic acid, S-(2-(diethylamino)ethyl) O,O-diethyl ester Chipman 6200 S-(Diethylaminoethyl) O,O-diethyl phosphorothioate S-(2-(Diethylamino)ethyl)phosphorothioic acid O,O-diethyl ester (2-Diethylamino)ethylphosphorothioic acid O,O-diethyl ester O,O-Diethyl-S-2-(diethylamino)ethylester kyseliny thiofosforecne Diethyl S-2-diethylaminoethyl phosphorothioate O,O-Diethyl S-diethylaminoethyl phosphorothioate O,O-Diethyl S-(«beta»-diethylamino)ethyl phosphorothioate O,O-Diethyl S-(2-diethylaminoethyl) thiophosphate DSDP ENT 24,980-X Inferno Metramac Metramak R-5,158 Rhodia-6200 Tetram O,O-Diethyl S-2-diethylaminoethyl phosphorothiolate R 5158 VG VG (chemical warfare agent)
Inchi:	InChI=1S/C10H24NO3PS/c1-5-11(6-2)9-10-16-15(12,13-7-3)14-8-4/h5-10H2,1-4H3
InchiKey:	PJISLFCKHOHLLP-UHFFFAOYSA-N
Formula:	C10H24NO3PS
SMILES:	CCOP(=O)(OCC)SCCN(CC)CC
Mol. weight [g/mol]:	269.34
CAS:	78-53-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.90		Crippen Method
logp	3.243		Crippen Method
mcvol	216.160	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	94.50	kJ/mol	382.50	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C78535&Units=SI

Legend

hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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