

Diethylammonium diethyldithiocarbamate

Other names:	Carbamodithioic acid, diethyl-, compd. with N-ethylethanamine (1:1) Carbamic acid, diethyldithio-, compd. with diethylamine (1:1) Carbamic acid, diethyldithio-, diethylamine salt Contramine Diethylammonium N,N-diethyldithiocarbamate N,N-Diethyldithiocarbamic acid diethylamine salt USAF ek-2635 Diaethylammonium-diaethyldithiocarbamat Diethyldithiocarbamic acid diethylammonium salt
Inchi:	InChI=1S/C9H22N2S2/c1-5-10(6-2)9(12)13-11(7-3)8-4/h5-8,11H2,1-4H3
InchiKey:	IDWDHPCPSZPXCI-UHFFFAOYSA-N
Formula:	C9H22N2S2
SMILES:	CCN(CC)SC(=S)N(CC)CC
Mol. weight [g/mol]:	222.41
CAS:	1518-58-7

Physical Properties

Property code	Value	Unit	Source
gf	396.64	kJ/mol	Joback Method
hf	94.34	kJ/mol	Joback Method
hfus	33.84	kJ/mol	Joback Method
hvap	53.26	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.603		Crippen Method
mcvol	186.030	ml/mol	McGowan Method
pc	2558.51	kPa	Joback Method
tb	569.02	K	Joback Method
tc	771.31	K	Joback Method
tf	324.80	K	Joback Method
vc	0.665	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	439.79	J/mol×K	569.02	Joback Method
cpg	455.14	J/mol×K	602.73	Joback Method
cpg	469.56	J/mol×K	636.45	Joback Method
cpg	483.10	J/mol×K	670.16	Joback Method
cpg	495.81	J/mol×K	703.88	Joback Method
cpg	507.77	J/mol×K	737.59	Joback Method
cpg	519.02	J/mol×K	771.31	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1518587&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307i

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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