

2-diethylaminoethyl butyl sulfide

Other names:	Butyl 2-diethylaminoethyl sulfide
Inchi:	InChI=1S/C10H23NS/c1-4-7-9-12-10-8-11(5-2)6-3/h4-10H2,1-3H3
InchiKey:	DMFWTLBQLIMYLP-UHFFFAOYSA-N
Formula:	C10H23NS
SMILES:	CCCCSCCN(CC)CC
Mol. weight [g/mol]:	189.36

Physical Properties

Property code	Value	Unit	Source
gf	177.22	kJ/mol	Joback Method
hf	-140.33	kJ/mol	Joback Method
hfus	28.81	kJ/mol	Joback Method
hvap	46.71	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	2.861		Crippen Method
mcvol	178.090	ml/mol	McGowan Method
pc	2137.41	kPa	Joback Method
rinpol	1335.00		NIST Webbook
tb	509.42	K	Joback Method
tc	689.42	K	Joback Method
tf	269.33	K	Joback Method
vc	0.667	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	410.64	J/mol×K	509.42	Joback Method
cpg	427.07	J/mol×K	539.42	Joback Method
cpg	442.78	J/mol×K	569.42	Joback Method
cpg	457.78	J/mol×K	599.42	Joback Method
cpg	472.09	J/mol×K	629.42	Joback Method
cpg	485.74	J/mol×K	659.42	Joback Method
cpg	498.74	J/mol×K	689.42	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R334819&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
hvpap:	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
rinppl:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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