

# 2-Diethylaminoethyl isobutyl disulfide

<b>Other names:</b>	Isobutyl 2-diethylaminoethyl disulfide
<b>Inchi:</b>	InChI=1S/C10H23NS2/c1-5-11(6-2)7-8-12-13-9-10(3)4/h10H,5-9H2,1-4H3
<b>InchiKey:</b>	LYLKVUMUXFAGGM-UHFFFAOYSA-N
<b>Formula:</b>	C10H23NS2
<b>SMILES:</b>	CCN(CC)CCSSCC(C)C
<b>Mol. weight [g/mol]:</b>	221.43

## Physical Properties

Property code	Value	Unit	Source
gf	207.90	kJ/mol	Joback Method
hf	-103.74	kJ/mol	Joback Method
hfus	29.41	kJ/mol	Joback Method
hvap	53.14	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	3.366		Crippen Method
mcvol	194.440	ml/mol	McGowan Method
pc	2187.68	kPa	Joback Method
rinpol	1510.00		NIST Webbook
rinpol	1518.00		NIST Webbook
rinpol	1510.00		NIST Webbook
rinpol	1510.00		NIST Webbook
rinpol	1510.00		NIST Webbook
tb	577.76	K	Joback Method
tc	779.22	K	Joback Method
tf	288.73	K	Joback Method
vc	0.716	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	472.05	J/molxK	577.76	Joback Method
cpg	489.06	J/molxK	611.34	Joback Method
cpg	505.19	J/molxK	644.91	Joback Method
cpg	520.46	J/molxK	678.49	Joback Method

cpg	534.89	J/mol×K	712.07	Joback Method
cpg	548.50	J/mol×K	745.65	Joback Method
cpg	561.30	J/mol×K	779.22	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R334824&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R334824&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

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

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