

# (E)-1-(But-2-en-1-yl)-2-(sec-butyl)disulfane

<b>Inchi:</b>	InChI=1S/C8H16S2/c1-4-6-7-9-10-8(3)5-2/h4,6,8H,5,7H2,1-3H3/b6-4+
<b>InchiKey:</b>	VKYSKYDDHDKUMT-GQCTYLIASA-N
<b>Formula:</b>	C8H16S2
<b>SMILES:</b>	CC=CCSSC(C)CC
<b>Mol. weight [g/mol]:</b>	176.34
<b>CAS:</b>	110690-24-9

## Physical Properties

Property code	Value	Unit	Source
gf	160.50	kJ/mol	Joback Method
hf	-12.77	kJ/mol	Joback Method
hfus	21.42	kJ/mol	Joback Method
hvap	46.61	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.742		Crippen Method
mcvol	151.980	ml/mol	McGowan Method
pc	2793.56	kPa	Joback Method
rinpol	1256.90		NIST Webbook
rinpol	1256.90		NIST Webbook
tb	523.72	K	Joback Method
tc	744.30	K	Joback Method
tf	228.64	K	Joback Method
vc	0.566	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.91	J/molxK	523.72	Joback Method
cpg	337.33	J/molxK	560.48	Joback Method
cpg	350.96	J/molxK	597.25	Joback Method
cpg	363.82	J/molxK	634.01	Joback Method
cpg	375.95	J/molxK	670.77	Joback Method
cpg	387.36	J/molxK	707.54	Joback Method
cpg	398.07	J/molxK	744.30	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=C110690249&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C110690249&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>hvp:</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</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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