

# (E)-sec-Butyl propenyl disulfide

**Inchi:** InChI=1S/C7H14S2/c1-4-6-8-9-7(3)5-2/h4,6-7H,5H2,1-3H3/b6-4+  
**InchiKey:** IOVUOUZQSDBAQN-GQCTYLIASA-N  
**Formula:** C7H14S2  
**SMILES:** CC=CSSC(C)CC  
**Mol. weight [g/mol]:** 162.32  
**CAS:** 24351-71-1

## Physical Properties

Property code	Value	Unit	Source
gf	152.08	kJ/mol	Joback Method
hf	7.87	kJ/mol	Joback Method
hfus	18.82	kJ/mol	Joback Method
hvap	44.38	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.700		Crippen Method
mcvol	137.890	ml/mol	McGowan Method
pc	3100.18	kPa	Joback Method
rinpol	1182.10		NIST Webbook
rinpol	1182.10		NIST Webbook
tb	500.84	K	Joback Method
tc	725.26	K	Joback Method
tf	217.37	K	Joback Method
vc	0.509	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.01	J/molxK	500.84	Joback Method
cpg	292.38	J/molxK	538.24	Joback Method
cpg	305.02	J/molxK	575.65	Joback Method
cpg	316.95	J/molxK	613.05	Joback Method
cpg	328.19	J/molxK	650.45	Joback Method
cpg	338.77	J/molxK	687.85	Joback Method
cpg	348.69	J/molxK	725.26	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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=C24351711&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24351711&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>

# 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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