

# ethyl trans-1-propenyl disulfide

<b>Inchi:</b>	InChI=1S/C5H10S2/c1-3-5-7-6-4-2/h3,5H,4H2,1-2H3/b5-3+
<b>InchiKey:</b>	VKBZUZWFXVJIFI-HWKANZROSA-N
<b>Formula:</b>	C5H10S2
<b>SMILES:</b>	CC=CSSCC
<b>Mol. weight [g/mol]:</b>	134.26

## Physical Properties

Property code	Value	Unit	Source
gf	137.68	kJ/mol	Joback Method
hf	54.43	kJ/mol	Joback Method
hfus	17.17	kJ/mol	Joback Method
hvap	40.32	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.921		Crippen Method
mvol	109.710	ml/mol	McGowan Method
pc	3848.31	kPa	Joback Method
rinpol	1012.00		NIST Webbook
tb	455.52	K	Joback Method
tc	681.95	K	Joback Method
tf	209.83	K	Joback Method
vc	0.404	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	197.10	J/mol×K	455.52	Joback Method
cpg	207.53	J/mol×K	493.26	Joback Method
cpg	217.41	J/mol×K	531.00	Joback Method
cpg	226.76	J/mol×K	568.74	Joback Method
cpg	235.58	J/mol×K	606.47	Joback Method
cpg	243.90	J/mol×K	644.21	Joback Method
cpg	251.73	J/mol×K	681.95	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=R237911&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R237911&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.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>hvac:</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>mccol:</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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