

# 1,2-Di((E)-prop-1-en-1-yl)disulfane

<b>Inchi:</b>	InChI=1S/C6H10S2/c1-3-5-7-8-6-4-2/h3-6H,1-2H3/b5-3+,6-4+
<b>InchiKey:</b>	FHSDVOJKLYJNCQ-GGWOSOGESA-N
<b>Formula:</b>	C6H10S2
<b>SMILES:</b>	CC=CSSC=CC
<b>Mol. weight [g/mol]:</b>	146.27
<b>CAS:</b>	23838-23-5

## Physical Properties

Property code	Value	Unit	Source
gf	226.32	kJ/mol	Joback Method
hf	151.01	kJ/mol	Joback Method
hfus	19.96	kJ/mol	Joback Method
hvap	42.50	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	3.435		Crippen Method
mvol	119.500	ml/mol	McGowan Method
pc	3646.53	kPa	Joback Method
rinpol	1129.10		NIST Webbook
tb	482.56	K	Joback Method
tc	716.77	K	Joback Method
tf	216.02	K	Joback Method
vc	0.440	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	219.51	J/molxK	482.56	Joback Method
cpg	230.71	J/molxK	521.60	Joback Method
cpg	241.19	J/molxK	560.63	Joback Method
cpg	250.99	J/molxK	599.67	Joback Method
cpg	260.15	J/molxK	638.70	Joback Method
cpg	268.71	J/molxK	677.74	Joback Method
cpg	276.70	J/molxK	716.77	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=C23838235&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23838235&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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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