

# propyl allyl disulfide

<b>Other names:</b>	Allyl propyl disulfide 4,5-dithia-1-octene 2-propenyl propyl disulfide Propyl 2-propenyl disulfide Allyl propyl disulphide
<b>Inchi:</b>	InChI=1S/C6H12S2/c1-3-5-7-8-6-4-2/h3H,1,4-6H2,2H3
<b>InchiKey:</b>	FCSSPCOFDUKHPV-UHFFFAOYSA-N
<b>Formula:</b>	C6H12S2
<b>SMILES:</b>	C=CCSSCCC
<b>Mol. weight [g/mol]:</b>	148.29
<b>CAS:</b>	2179-59-1

## Physical Properties

Property code	Value	Unit	Source
gf	153.72	kJ/mol	Joback Method
hf	42.00	kJ/mol	Joback Method
hfus	18.28	kJ/mol	Joback Method
hvap	41.91	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.964		Crippen Method
mcvol	123.800	ml/mol	McGowan Method
pc	3388.08	kPa	Joback Method
rinpol	1088.00		NIST Webbook
rinpol	1077.00		NIST Webbook
rinpol	1098.00		NIST Webbook
rinpol	1048.00		NIST Webbook
rinpol	1077.00		NIST Webbook
rinpol	1045.00		NIST Webbook
rinpol	1058.00		NIST Webbook
rinpol	1072.00		NIST Webbook
rinpol	1077.00		NIST Webbook
rinpol	1072.00		NIST Webbook
rinpol	1045.00		NIST Webbook
ripol	1428.00		NIST Webbook
ripol	1436.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1474.00		NIST Webbook

ripol	1430.00		NIST Webbook
ripol	1428.00		NIST Webbook
ripol	1428.00		NIST Webbook
ripol	1428.00		NIST Webbook
ripol	1386.00		NIST Webbook
ripol	1432.00		NIST Webbook
ripol	1432.00		NIST Webbook
ripol	1436.00		NIST Webbook
tb	470.92	K	Joback Method
tc	687.95	K	Joback Method
tf	224.42	K	Joback Method
vc	0.461	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	237.15	J/mol×K	470.92	Joback Method
cpg	248.69	J/mol×K	507.09	Joback Method
cpg	259.67	J/mol×K	543.26	Joback Method
cpg	270.11	J/mol×K	579.43	Joback Method
cpg	280.01	J/mol×K	615.61	Joback Method
cpg	289.38	J/mol×K	651.78	Joback Method
cpg	298.22	J/mol×K	687.95	Joback Method

## Sources

<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>
<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=C2179591&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2179591&amp;Units=SI</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>h vap:</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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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