

# diallyl thiosulfinate

<b>Inchi:</b>	InChI=1S/C6H10S2/c1-3-5-8(7)6-4-2/h3-4H,1-2,5-6H2
<b>InchiKey:</b>	WGJRJJBYRQHJQE-UHFFFAOYSA-N
<b>Formula:</b>	C6H10S2
<b>SMILES:</b>	C=CCS(=S)CC=C
<b>Mol. weight [g/mol]:</b>	146.27

## Physical Properties

Property code	Value	Unit	Source
gf	241.56	kJ/mol	Joback Method
hf	167.43	kJ/mol	Joback Method
hfus	17.00	kJ/mol	Joback Method
hvap	41.24	kJ/mol	Joback Method
log10ws	0.09		Crippen Method
logp	1.439		Crippen Method
mcvol	119.500	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
rinpol	1324.00		NIST Webbook
rinpol	1324.00		NIST Webbook
tb	467.60	K	Joback Method
tc	689.62	K	Joback Method
tf	222.66	K	Joback Method
vc	0.442	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.48	J/mol×K	467.60	Joback Method
cpg	231.22	J/mol×K	504.60	Joback Method
cpg	241.39	J/mol×K	541.61	Joback Method
cpg	251.01	J/mol×K	578.61	Joback Method
cpg	260.08	J/mol×K	615.62	Joback Method
cpg	268.62	J/mol×K	652.62	Joback Method
cpg	276.63	J/mol×K	689.62	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R221144&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R221144&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>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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