

# Allyl thiopropionate

<b>Inchi:</b>	InChI=1S/C6H10OS/c1-3-5-8-6(7)4-2/h3H,1,4-5H2,2H3
<b>InchiKey:</b>	GKRISGLFPMFKSX-UHFFFAOYSA-N
<b>Formula:</b>	C6H10OS
<b>SMILES:</b>	C=CCSC(=O)CC
<b>Mol. weight [g/mol]:</b>	130.21
<b>CAS:</b>	41820-22-8

## Physical Properties

Property code	Value	Unit	Source
gf	-8.32	kJ/mol	Joback Method
hf	-112.45	kJ/mol	Joback Method
hfus	15.74	kJ/mol	Joback Method
hvap	41.84	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.842		Crippen Method
mvol	109.020	ml/mol	McGowan Method
pc	3577.07	kPa	Joback Method
rinpol	709.00		NIST Webbook
tb	456.01	K	Joback Method
tc	661.16	K	Joback Method
tf	239.95	K	Joback Method
vc	0.412	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	207.07	J/mol×K	456.01	Joback Method
cpg	217.17	J/mol×K	490.20	Joback Method
cpg	226.79	J/mol×K	524.39	Joback Method
cpg	235.94	J/mol×K	558.58	Joback Method
cpg	244.62	J/mol×K	592.78	Joback Method
cpg	252.85	J/mol×K	626.97	Joback Method
cpg	260.64	J/mol×K	661.16	Joback Method

# Sources

<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=C41820228&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C41820228&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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