

# propyl 3-(methylthio)-(E)-2-propenoate

<b>Inchi:</b>	InChI=1S/C7H12O2S/c1-3-5-9-7(8)4-6-10-2/h4,6H,3,5H2,1-2H3/b6-4+
<b>InchiKey:</b>	UZTNLELOESZULR-GQCTYLIASA-N
<b>Formula:</b>	C7H12O2S
<b>SMILES:</b>	CCCOC(=O)C=CSC
<b>Mol. weight [g/mol]:</b>	160.23

## Physical Properties

Property code	Value	Unit	Source
gf	-112.52	kJ/mol	Joback Method
hf	-273.52	kJ/mol	Joback Method
hfus	21.00	kJ/mol	Joback Method
hvap	47.11	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.816		Crippen Method
mcvol	128.980	ml/mol	McGowan Method
pc	3173.97	kPa	Joback Method
ripol	1827.00		NIST Webbook
tb	508.79	K	Joback Method
tc	714.76	K	Joback Method
tf	270.13	K	Joback Method
vc	0.485	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.59	J/mol×K	508.79	Joback Method
cpg	280.93	J/mol×K	543.12	Joback Method
cpg	291.74	J/mol×K	577.45	Joback Method
cpg	302.03	J/mol×K	611.78	Joback Method
cpg	311.80	J/mol×K	646.11	Joback Method
cpg	321.06	J/mol×K	680.43	Joback Method
cpg	329.81	J/mol×K	714.76	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=R327361&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R327361&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>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>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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