

# 2-Mercapto-1-propanol

Inchi:	InChI=1S/C3H8OS/c1-3(5)2-4/h3-5H,2H2,1H3
InchiKey:	QNNVICQPXUUBSN-UHFFFAOYSA-N
Formula:	C3H8OS
SMILES:	CC(S)CO
Mol. weight [g/mol]:	92.16

## Physical Properties

Property code	Value	Unit	Source
gf	-135.49	kJ/mol	Joback Method
hf	-224.28	kJ/mol	Joback Method
hfus	8.13	kJ/mol	Joback Method
hvap	45.30	kJ/mol	Joback Method
log10ws	-0.53		Crippen Method
logp	0.297		Crippen Method
mcvol	75.350	ml/mol	McGowan Method
pc	5552.58	kPa	Joback Method
rinpole	769.00		NIST Webbook
ripole	1485.00		NIST Webbook
ripol	1485.00		NIST Webbook
tb	422.64	K	Joback Method
tc	612.40	K	Joback Method
tf	205.85	K	Joback Method
vc	0.271	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	137.20	J/molxK	422.64	Joback Method
cpg	143.76	J/molxK	454.27	Joback Method
cpg	150.04	J/molxK	485.89	Joback Method
cpg	156.04	J/molxK	517.52	Joback Method
cpg	161.77	J/molxK	549.14	Joback Method
cpg	167.24	J/molxK	580.77	Joback Method
cpg	172.45	J/molxK	612.40	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=R568720&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R568720&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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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