

# 3-Mercapto-2-methyl-1-propanol

Inchi:	InChI=1S/C4H10OS/c1-4(2-5)3-6/h4-6H,2-3H2,1H3
InchiKey:	FCIVYWQHILCTLI-UHFFFAOYSA-N
Formula:	C4H10OS
SMILES:	CC(CO)CS
Mol. weight [g/mol]:	106.19

## Physical Properties

Property code	Value	Unit	Source
gf	-127.07	kJ/mol	Joback Method
hf	-244.92	kJ/mol	Joback Method
hfus	10.72	kJ/mol	Joback Method
hvap	47.53	kJ/mol	Joback Method
log10ws	-0.59		Crippen Method
logp	0.545		Crippen Method
mcvol	89.440	ml/mol	McGowan Method
pc	4835.95	kPa	Joback Method
rinpola	920.00		NIST Webbook
rinpola	920.00		NIST Webbook
tb	445.52	K	Joback Method
tc	633.53	K	Joback Method
tf	217.12	K	Joback Method
vc	0.327	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	173.64	J/molxK	445.52	Joback Method
cpg	181.58	J/molxK	476.85	Joback Method
cpg	189.18	J/molxK	508.19	Joback Method
cpg	196.43	J/molxK	539.52	Joback Method
cpg	203.36	J/molxK	570.86	Joback Method
cpg	209.97	J/molxK	602.19	Joback Method
cpg	216.27	J/molxK	633.53	Joback Method

# Sources

<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=R602949&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R602949&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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