

# 3-Sulfanylpentan-1-ol

Inchi:	InChI=1S/C5H12OS/c1-2-5(7)3-4-6/h5-7H,2-4H2,1H3
InchiKey:	PRJACVDGNSZBLE-UHFFFAOYSA-N
Formula:	C5H12OS
SMILES:	CCC(S)CCO
Mol. weight [g/mol]:	120.21

## Physical Properties

Property code	Value	Unit	Source
gf	-118.65	kJ/mol	Joback Method
hf	-265.56	kJ/mol	Joback Method
hfus	13.31	kJ/mol	Joback Method
hvap	49.75	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.077		Crippen Method
mvol	103.530	ml/mol	McGowan Method
pc	4249.61	kPa	Joback Method
ripol	1009.00		NIST Webbook
ripol	1760.00		NIST Webbook
tb	468.40	K	Joback Method
tc	654.54	K	Joback Method
tf	228.39	K	Joback Method
vc	0.383	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	212.35	J/molxK	468.40	Joback Method
cpg	221.54	J/molxK	499.42	Joback Method
cpg	230.32	J/molxK	530.45	Joback Method
cpg	238.70	J/molxK	561.47	Joback Method
cpg	246.71	J/molxK	592.49	Joback Method
cpg	254.35	J/molxK	623.52	Joback Method
cpg	261.63	J/molxK	654.54	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=R621435&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R621435&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>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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