

# trans-2-Methylthiolan-3-ol

Inchi:	InChI=1S/C5H10OS/c1-4-5(6)2-3-7-4/h4-6H,2-3H2,1H3/t4-,5+/m1/s1
InchiKey:	HAUQWGSXLBQNPN-UHNVWZDZSA-N
Formula:	C5H10OS
SMILES:	CC1SCCC1O
Mol. weight [g/mol]:	118.20

## Physical Properties

Property code	Value	Unit	Source
gf	-76.90	kJ/mol	Joback Method
hf	-213.36	kJ/mol	Joback Method
hfus	11.46	kJ/mol	Joback Method
hvap	49.16	kJ/mol	Joback Method
log10ws	-1.18		Crippen Method
logp	0.873		Crippen Method
mcvol	92.670	ml/mol	McGowan Method
pc	4659.34	kPa	Joback Method
ripol	1782.00		NIST Webbook
tb	464.42	K	Joback Method
tc	667.56	K	Joback Method
tf	297.04	K	Joback Method
vc	0.321	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	192.80	J/molxK	464.42	Joback Method
cpg	204.02	J/molxK	498.28	Joback Method
cpg	214.66	J/molxK	532.13	Joback Method
cpg	224.73	J/molxK	565.99	Joback Method
cpg	234.27	J/molxK	599.84	Joback Method
cpg	243.28	J/molxK	633.70	Joback Method
cpg	251.78	J/molxK	667.56	Joback Method

# Sources

<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=R410918&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R410918&amp;Units=SI</a>
<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>

# 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>hvac:</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>mccol:</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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