

# 3-Chlorothioanisole

<b>Other names:</b>	Benzene, 1-chloro-3-(methylthio)-
<b>Inchi:</b>	InChI=1S/C7H7ClS/c1-9-7-4-2-3-6(8)5-7/h2-5H,1H3
<b>InchiKey:</b>	PTGSDZVASWKUHK-UHFFFAOYSA-N
<b>Formula:</b>	C7H7ClS
<b>SMILES:</b>	CSc1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	158.65
<b>CAS:</b>	4867-37-2

## Physical Properties

Property code	Value	Unit	Source
gf	132.03	kJ/mol	Joback Method
hf	63.38	kJ/mol	Joback Method
hfus	15.87	kJ/mol	Joback Method
hvap	45.32	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	3.062		Crippen Method
mcvol	114.320	ml/mol	McGowan Method
pc	3935.71	kPa	Joback Method
tb	497.43	K	Joback Method
tc	743.67	K	Joback Method
tf	271.91	K	Joback Method
vc	0.422	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	205.94	J/mol×K	497.43	Joback Method
cpg	216.73	J/mol×K	538.47	Joback Method
cpg	226.81	J/mol×K	579.51	Joback Method
cpg	236.18	J/mol×K	620.55	Joback Method
cpg	244.88	J/mol×K	661.59	Joback Method
cpg	252.92	J/mol×K	702.63	Joback Method
cpg	260.34	J/mol×K	743.67	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=C4867372&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4867372&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>

# 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>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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