

# 3-(4-Chlorophenyl)-1,1-dimethyl-2-thiourea

<b>Other names:</b>	Thiourea, N'-(4-chlorophenyl)-N,N-dimethyl-1-p-Chlorophenyl-3,3-dimethyl-2-thiourea
<b>Inchi:</b>	InChI=1S/C9H11ClN2S/c1-12(2)9(13)11-8-5-3-7(10)4-6-8/h3-6H,1-2H3,(H,11,13)
<b>InchiKey:</b>	FWGDAHLBEXSAPT-UHFFFAOYSA-N
<b>Formula:</b>	C9H11ClN2S
<b>SMILES:</b>	CN(C)C(=S)Nc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	214.72
<b>CAS:</b>	2212-17-1

## Physical Properties

Property code	Value	Unit	Source
gf	432.98	kJ/mol	Joback Method
hf	247.73	kJ/mol	Joback Method
hfus	29.64	kJ/mol	Joback Method
hvap	58.16	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.598		Crippen Method
mvol	158.160	ml/mol	McGowan Method
pc	3460.21	kPa	Joback Method
tb	607.06	K	Joback Method
tc	844.06	K	Joback Method
tf	379.45	K	Joback Method
vc	0.570	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.51	J/molxK	607.06	Joback Method
cpg	363.73	J/molxK	646.56	Joback Method
cpg	374.96	J/molxK	686.06	Joback Method
cpg	385.29	J/molxK	725.56	Joback Method
cpg	394.82	J/molxK	765.06	Joback Method
cpg	403.64	J/molxK	804.56	Joback Method
cpg	411.86	J/molxK	844.06	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2212171&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2212171&amp;Units=SI</a>
<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>

# 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>hvp:</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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