

# 4-Chlorobenzenesulfonamide, N-methyl-

<b>Other names:</b>	Benzenesulfonamide, 4-chloro-N-methyl- 4-Chloro-N-methylbenzenesulfonamide
<b>Inchi:</b>	InChI=1S/C7H8ClNO2S/c1-9-12(10,11)7-4-2-6(8)3-5-7/h2-5,9H,1H3
<b>InchiKey:</b>	PJHYEBDREIJPX-UHFFFAOYSA-N
<b>Formula:</b>	C7H8ClNO2S
<b>SMILES:</b>	CNS(=O)(=O)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	205.66
<b>CAS:</b>	6333-79-5

## Physical Properties

Property code	Value	Unit	Source
gf	-280.24	kJ/mol	Joback Method
hf	-378.37	kJ/mol	Joback Method
hfus	28.21	kJ/mol	Joback Method
hvap	63.57	kJ/mol	Joback Method
log10ws	-2.03		Crippen Method
logp	1.248		Crippen Method
mvol	136.040	ml/mol	McGowan Method
pc	4802.50	kPa	Joback Method
rinpol	1744.00		NIST Webbook
rinpol	1744.00		NIST Webbook
tb	526.60	K	Joback Method
tc	741.48	K	Joback Method
tf	328.73	K	Joback Method
vc	0.529	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	276.79	J/mol×K	526.60	Joback Method
cpg	288.22	J/mol×K	562.41	Joback Method
cpg	298.96	J/mol×K	598.23	Joback Method
cpg	308.99	J/mol×K	634.04	Joback Method
cpg	318.33	J/mol×K	669.85	Joback Method

cpg	326.98	J/mol×K	705.66	Joback Method
cpg	334.97	J/mol×K	741.48	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=C6333795&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6333795&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>

## 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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