

# 3-Chloro-4-methoxytoluene

<b>Inchi:</b>	InChI=1S/C8H9ClO/c1-6-3-4-8(10-2)7(9)5-6/h3-5H,1-2H3
<b>InchiKey:</b>	VUZBRBKYGIXMP-UHFFFAOYSA-N
<b>Formula:</b>	C8H9ClO
<b>SMILES:</b>	COc1ccc(C)cc1Cl
<b>Mol. weight [g/mol]:</b>	156.61
<b>CAS:</b>	22002-44-4

## Physical Properties

Property code	Value	Unit	Source
gf	-7.30	kJ/mol	Joback Method
hf	-142.82	kJ/mol	Joback Method
hfus	15.12	kJ/mol	Joback Method
hvap	43.80	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.657		Crippen Method
mcvol	117.930	ml/mol	McGowan Method
pc	3306.75	kPa	Joback Method
tb	478.93	K	Joback Method
tc	696.56	K	Joback Method
tf	283.53	K	Joback Method
vc	0.443	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	224.28	J/molxK	478.93	Joback Method
cpg	274.14	J/molxK	660.29	Joback Method
cpg	265.18	J/molxK	624.02	Joback Method
cpg	255.72	J/molxK	587.74	Joback Method
cpg	245.75	J/molxK	551.47	Joback Method
cpg	235.27	J/molxK	515.20	Joback Method
cpg	282.59	J/molxK	696.56	Joback Method
dvisc	0.0002103	Paxs	478.93	Joback Method
dvisc	0.0002559	Paxs	446.36	Joback Method

dvisc	0.0003212	Paxs	413.80	Joback Method
dvisc	0.0004190	Paxs	381.23	Joback Method
dvisc	0.0005745	Paxs	348.66	Joback Method
dvisc	0.0008406	Paxs	316.10	Joback Method
dvisc	0.0013423	Paxs	283.53	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=C22002444&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22002444&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>mccvol:</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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