

# Benzene, 5-chloro-1,2,3-trimethyl

<b>Inchi:</b>	InChI=1S/C9H11Cl/c1-6-4-9(10)5-7(2)8(6)3/h4-5H,1-3H3
<b>InchiKey:</b>	KQAWYZZWZQHGX-UHFFFAOYSA-N
<b>Formula:</b>	C9H11Cl
<b>SMILES:</b>	Cc1cc(Cl)cc(C)c1C
<b>Mol. weight [g/mol]:</b>	154.64

## Physical Properties

Property code	Value	Unit	Source
gf	96.49	kJ/mol	Joback Method
hf	-42.71	kJ/mol	Joback Method
hfus	16.14	kJ/mol	Joback Method
hvap	44.28	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	3.265		Crippen Method
mcvol	126.150	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
rinpol	1214.00		NIST Webbook
rinpol	1206.00		NIST Webbook
rinpol	1214.00		NIST Webbook
tb	484.37	K	Joback Method
tc	701.99	K	Joback Method
tf	285.09	K	Joback Method
vc	0.480	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.34	J/molxK	484.37	Joback Method
cpg	297.78	J/molxK	665.72	Joback Method
cpg	288.04	J/molxK	629.45	Joback Method
cpg	277.74	J/molxK	593.18	Joback Method
cpg	266.86	J/molxK	556.91	Joback Method
cpg	255.40	J/molxK	520.64	Joback Method
cpg	306.99	J/molxK	701.99	Joback Method

dvisc	0.0002266	Paxs	484.37	Joback Method
dvisc	0.0002723	Paxs	451.16	Joback Method
dvisc	0.0003370	Paxs	417.94	Joback Method
dvisc	0.0004325	Paxs	384.73	Joback Method
dvisc	0.0005820	Paxs	351.52	Joback Method
dvisc	0.0008333	Paxs	318.30	Joback Method
dvisc	0.0012970	Paxs	285.09	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=R528613&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R528613&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>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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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