

# [2H9]-2-Chloro-1,4-dimethylbenzene

<b>Inchi:</b>	InChI=1S/C8H9Cl/c1-6-3-4-7(2)8(9)5-6/h3-5H,1-2H3/i1D3,2D3,3D,4D,5D
<b>InchiKey:</b>	KZNRNQGTVRTDPN-XVGVXEQOSA-N
<b>Formula:</b>	C8D9Cl
<b>SMILES:</b>	Cc1ccc(C)c(Cl)c1
<b>Mol. weight [g/mol]:</b>	149.67

## Physical Properties

Property code	Value	Unit	Source
gf	97.70	kJ/mol	Joback Method
hf	-10.60	kJ/mol	Joback Method
hfus	13.94	kJ/mol	Joback Method
hvap	41.39	kJ/mol	Joback Method
log10ws	-3.11		Crippen Method
logp	2.957		Crippen Method
mcvol	112.060	ml/mol	McGowan Method
pc	3372.36	kPa	Joback Method
rinpol	1071.00		NIST Webbook
rinpol	1071.00		NIST Webbook
rinpol	1044.00		NIST Webbook
tb	456.51	K	Joback Method
tc	676.11	K	Joback Method
tf	261.30	K	Joback Method
vc	0.424	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.65	J/molxK	456.51	Joback Method
cpg	213.88	J/molxK	493.11	Joback Method
cpg	224.50	J/molxK	529.71	Joback Method
cpg	234.54	J/molxK	566.31	Joback Method
cpg	244.00	J/molxK	602.91	Joback Method
cpg	252.92	J/molxK	639.51	Joback Method
cpg	261.31	J/molxK	676.11	Joback Method

dvisc	0.0016353	Paxs	261.30	Joback Method
dvisc	0.0009978	Paxs	293.84	Joback Method
dvisc	0.0006718	Paxs	326.37	Joback Method
dvisc	0.0004860	Paxs	358.90	Joback Method
dvisc	0.0003710	Paxs	391.44	Joback Method
dvisc	0.0002952	Paxs	423.98	Joback Method
dvisc	0.0002426	Paxs	456.51	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R389116&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R389116&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>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>mcvol:</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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