

# Benzene, 2-(3-chlorobutyl)-1,4-dimethyl

<b>Inchi:</b>	InChI=1S/C12H17Cl/c1-9-4-5-10(2)12(8-9)7-6-11(3)13/h4-5,8,11H,6-7H2,1-3H3
<b>InchiKey:</b>	WHGMHBOCPNYHGF-UHFFFAOYSA-N
<b>Formula:</b>	C12H17Cl
<b>SMILES:</b>	<chem>Cc1ccc(C)c(CCC(C)Cl)c1</chem>
<b>Mol. weight [g/mol]:</b>	196.72

## Physical Properties

Property code	Value	Unit	Source
gf	128.94	kJ/mol	Joback Method
hf	-98.44	kJ/mol	Joback Method
hfus	20.77	kJ/mol	Joback Method
hvap	49.90	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	3.863		Crippen Method
mcvol	168.420	ml/mol	McGowan Method
pc	2271.90	kPa	Joback Method
rinpol	1446.00		NIST Webbook
tb	547.59	K	Joback Method
tc	758.50	K	Joback Method
tf	291.38	K	Joback Method
vc	0.642	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	377.01	J/molxK	547.59	Joback Method
cpg	447.52	J/molxK	723.34	Joback Method
cpg	435.02	J/molxK	688.19	Joback Method
cpg	421.74	J/molxK	653.04	Joback Method
cpg	407.67	J/molxK	617.89	Joback Method
cpg	392.77	J/molxK	582.74	Joback Method
cpg	459.29	J/molxK	758.50	Joback Method
dvisc	0.0001867	Paxs	547.59	Joback Method
dvisc	0.0002383	Paxs	504.89	Joback Method

dvisc	0.0003182	Paxs	462.19	Joback Method
dvisc	0.0004507	Paxs	419.49	Joback Method
dvisc	0.0006907	Paxs	376.78	Joback Method
dvisc	0.0011807	Paxs	334.08	Joback Method
dvisc	0.0023617	Paxs	291.38	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=R131927&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R131927&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>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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