

# Benzene, (3-chloro-3-methylbutyl)-

<b>Inchi:</b>	InChI=1S/C11H15Cl/c1-11(2,12)9-8-10-6-4-3-5-7-10/h3-7H,8-9H2,1-2H3
<b>InchiKey:</b>	GCAZETCXAVCJCN-UHFFFAOYSA-N
<b>Formula:</b>	C11H15Cl
<b>SMILES:</b>	CC(C)(Cl)CCc1ccccc1
<b>Mol. weight [g/mol]:</b>	182.69
<b>CAS:</b>	4830-95-9

## Physical Properties

Property code	Value	Unit	Source
gf	145.06	kJ/mol	Joback Method
hf	-58.33	kJ/mol	Joback Method
hfus	15.07	kJ/mol	Joback Method
hvap	45.45	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	3.637		Crippen Method
mcvol	154.330	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
rinpol	1326.00		NIST Webbook
rinpol	1326.00		NIST Webbook
tb	511.96	K	Joback Method
tc	732.97	K	Joback Method
tf	272.49	K	Joback Method
vc	0.582	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.04	J/molxK	511.96	Joback Method
cpg	349.50	J/molxK	548.80	Joback Method
cpg	364.81	J/molxK	585.63	Joback Method
cpg	379.03	J/molxK	622.47	Joback Method
cpg	392.23	J/molxK	659.30	Joback Method
cpg	404.48	J/molxK	696.14	Joback Method
cpg	415.84	J/molxK	732.97	Joback Method

dvisc	0.0046976	Paxs	272.49	Joback Method
dvisc	0.0020281	Paxs	312.40	Joback Method
dvisc	0.0010592	Paxs	352.31	Joback Method
dvisc	0.0006313	Paxs	392.23	Joback Method
dvisc	0.0004140	Paxs	432.14	Joback Method
dvisc	0.0002916	Paxs	472.05	Joback Method
dvisc	0.0002169	Paxs	511.96	Joback Method

## Sources

<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=C4830959&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4830959&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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