

# 1-Chloromethyl-3,5-bis(1,1-dimethylethyl)benzene

<b>Other names:</b>	Benzene,1-(chloromethyl)-3,5-bis(1,1-dimethylethyl)-
<b>Inchi:</b>	InChI=1S/C15H23Cl/c1-14(2,3)12-7-11(10-16)8-13(9-12)15(4,5)6/h7-9H,10H2,1-6H3
<b>InchiKey:</b>	UNRGFCVSCXJGCL-UHFFFAOYSA-N
<b>Formula:</b>	C15H23Cl
<b>SMILES:</b>	CC(C)(C)c1cc(CCl)cc(C(C)(C)C)c1
<b>Mol. weight [g/mol]:</b>	238.80
<b>CAS:</b>	51625-14-0

## Physical Properties

Property code	Value	Unit	Source
gf	162.32	kJ/mol	Joback Method
hf	-172.58	kJ/mol	Joback Method
hfus	17.24	kJ/mol	Joback Method
hvap	54.38	kJ/mol	Joback Method
ie	8.29 ± 0.03	eV	NIST Webbook
log10ws	-5.13		Crippen Method
logp	5.020		Crippen Method
mcvol	210.690	ml/mol	McGowan Method
pc	1801.56	kPa	Joback Method
tb	610.21	K	Joback Method
tc	831.24	K	Joback Method
tf	345.03	K	Joback Method
vc	0.794	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	531.75	J/molxK	610.21	Joback Method
cpg	550.76	J/molxK	647.05	Joback Method
cpg	568.46	J/molxK	683.89	Joback Method
cpg	584.95	J/molxK	720.73	Joback Method
cpg	600.32	J/molxK	757.57	Joback Method
cpg	614.66	J/molxK	794.41	Joback Method
cpg	628.05	J/molxK	831.24	Joback Method

dvisc	0.0021864	Paxs	345.03	Joback Method
dvisc	0.0010236	Paxs	389.23	Joback Method
dvisc	0.0005594	Paxs	433.42	Joback Method
dvisc	0.0003419	Paxs	477.62	Joback Method
dvisc	0.0002271	Paxs	521.82	Joback Method
dvisc	0.0001609	Paxs	566.01	Joback Method
dvisc	0.0001197	Paxs	610.21	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=C51625140&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C51625140&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>ie:</b>	Ionization energy
<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>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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