

# Cyclohexanol, 2-bromo-, cis-

<b>Other names:</b>	cis-2-Bromocyclohexanol 2-Bromocyclohexanol, (Z)
<b>Inchi:</b>	InChI=1S/C6H11BrO/c7-5-3-1-2-4-6(5)8/h5-6,8H,1-4H2/t5-,6+/m0/s1
<b>InchiKey:</b>	AAMCLCZHZXKWRV-NTSWFWBYSA-N
<b>Formula:</b>	C6H11BrO
<b>SMILES:</b>	OC1CCCCC1Br
<b>Mol. weight [g/mol]:</b>	179.06
<b>CAS:</b>	16536-57-5

## Physical Properties

Property code	Value	Unit	Source
gf	-106.12	kJ/mol	Joback Method
hf	-259.09	kJ/mol	Joback Method
hfus	13.57	kJ/mol	Joback Method
hvap	52.18	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	1.685		Crippen Method
mcvol	107.910	ml/mol	McGowan Method
pc	4684.89	kPa	Joback Method
rinpol	1089.00		NIST Webbook
tb	509.90	K	Joback Method
tc	720.76	K	Joback Method
tf	301.80 ± 0.20	K	NIST Webbook
vc	0.385	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.93	J/molxK	509.90	Joback Method
cpg	241.56	J/molxK	545.04	Joback Method
cpg	253.47	J/molxK	580.19	Joback Method
cpg	264.69	J/molxK	615.33	Joback Method
cpg	275.23	J/molxK	650.48	Joback Method
cpg	285.13	J/molxK	685.62	Joback Method

cpg	294.40	J/mol×K	720.76	Joback Method
dvisc	0.0184055	Paxs	281.14	Joback Method
dvisc	0.0057078	Paxs	319.27	Joback Method
dvisc	0.0022724	Paxs	357.39	Joback Method
dvisc	0.0010805	Paxs	395.52	Joback Method
dvisc	0.0005855	Paxs	433.65	Joback Method
dvisc	0.0003503	Paxs	471.77	Joback Method
dvisc	0.0002263	Paxs	509.90	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	323.00	K	0.10	NIST Webbook

## 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=C16536575&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16536575&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>

## 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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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