

# Cyclohexane, (2-bromoethyl)-

<b>Other names:</b>	(2-Bromoethyl)cyclohexane 2-Cyclohexylethyl bromide
<b>Inchi:</b>	InChI=1S/C8H15Br/c9-7-6-8-4-2-1-3-5-8/h8H,1-7H2
<b>InchiKey:</b>	JRQAAYVLPPGEHT-UHFFFAOYSA-N
<b>Formula:</b>	C8H15Br
<b>SMILES:</b>	BrCCC1CCCCC1
<b>Mol. weight [g/mol]:</b>	191.11
<b>CAS:</b>	1647-26-3

## Physical Properties

Property code	Value	Unit	Source
gf	55.25	kJ/mol	Joback Method
hf	-127.80	kJ/mol	Joback Method
hfus	13.60	kJ/mol	Joback Method
hvap	40.27	kJ/mol	Joback Method
log10ws	-3.26		Crippen Method
logp	3.352		Crippen Method
mvol	130.220	ml/mol	McGowan Method
pc	3411.87	kPa	Joback Method
tb	468.15	K	Joback Method
tc	687.95	K	Joback Method
tf	247.10	K	Joback Method
vc	0.478	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.68	J/molxK	687.95	Joback Method
cpg	260.36	J/molxK	468.15	Joback Method
cpg	277.44	J/molxK	504.78	Joback Method
cpg	293.52	J/molxK	541.42	Joback Method
cpg	308.65	J/molxK	578.05	Joback Method
cpg	322.87	J/molxK	614.68	Joback Method
cpg	336.20	J/molxK	651.32	Joback Method

dvisc	0.0003429	Paxs	468.15	Joback Method
dvisc	0.0057192	Paxs	247.10	Joback Method
dvisc	0.0026392	Paxs	283.94	Joback Method
dvisc	0.0014547	Paxs	320.78	Joback Method
dvisc	0.0009065	Paxs	357.62	Joback Method
dvisc	0.0006170	Paxs	394.47	Joback Method
dvisc	0.0004486	Paxs	431.31	Joback Method
hvapt	54.20	kJ/mol	398.50	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.26376e+01
Coeff. B	-3.33799e+03
Coeff. C	-8.39030e+01
Temperature range (K), min.	354.19
Temperature range (K), max.	539.53

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1647263&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1647263&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>pvap:</b>	Vapor 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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