

Cyclohexene, 1-bromo-

Other names:	1-bromocyclohex-1-ene
Inchi:	InChI=1S/C6H9Br/c7-6-4-2-1-3-5-6/h4H,1-3,5H2
InchiKey:	QBUMXSSCYUMVAW-UHFFFAOYSA-N
Formula:	C6H9Br
SMILES:	BrC1=CCCCC1
Mol. weight [g/mol]:	161.04
CAS:	2044-08-8

Physical Properties

Property code	Value	Unit	Source
gf	66.45	kJ/mol	Joback Method
hf	-19.87	kJ/mol	Joback Method
hfus	8.18	kJ/mol	Joback Method
hvap	37.08	kJ/mol	Joback Method
log10ws	-3.01		Crippen Method
logp	2.839		Crippen Method
mcvol	97.740	ml/mol	McGowan Method
pc	4652.99	kPa	Joback Method
rinpol	975.00		NIST Webbook
rinpol	975.00		NIST Webbook
rinpol	975.00		NIST Webbook
ripol	1324.00		NIST Webbook
ripol	1324.00		NIST Webbook
tb	431.20	K	Joback Method
tc	661.96	K	Joback Method
tf	242.08	K	Joback Method
vc	0.353	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.19	J/molxK	431.20	Joback Method
cpg	217.97	J/molxK	623.50	Joback Method
cpg	208.48	J/molxK	585.04	Joback Method

cpg	198.30	J/molxK	546.58	Joback Method
cpg	187.38	J/molxK	508.12	Joback Method
cpg	175.69	J/molxK	469.66	Joback Method
cpg	226.80	J/molxK	661.96	Joback Method
dvisc	0.0003605	Paxs	431.20	Joback Method
dvisc	0.0004644	Paxs	399.68	Joback Method
dvisc	0.0006248	Paxs	368.16	Joback Method
dvisc	0.0008887	Paxs	336.64	Joback Method
dvisc	0.0013594	Paxs	305.12	Joback Method
dvisc	0.0022933	Paxs	273.60	Joback Method
dvisc	0.0044334	Paxs	242.08	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2044088&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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