

Cyclohexane, (bromomethyl)-

Other names:	Bromocyclohexylmethane (Bromomethyl)cyclohexane Cyclohexylmethyl bromide
Inchi:	InChI=1S/C7H13Br/c8-6-7-4-2-1-3-5-7/h7H,1-6H2
InchiKey:	UUWSLBWDFJMSFP-UHFFFAOYSA-N
Formula:	C7H13Br
SMILES:	BrCC1CCCCC1
Mol. weight [g/mol]:	177.08
CAS:	2550-36-9

Physical Properties

Property code	Value	Unit	Source
gf	46.83	kJ/mol	Joback Method
hf	-107.16	kJ/mol	Joback Method
hfus	11.01	kJ/mol	Joback Method
hvap	38.04	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.962		Crippen Method
mcvol	116.130	ml/mol	McGowan Method
pc	3829.28	kPa	Joback Method
tb	445.27	K	Joback Method
tc	668.39	K	Joback Method
tf	235.83	K	Joback Method
vc	0.422	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.51	J/molxK	445.27	Joback Method
cpg	288.61	J/molxK	631.20	Joback Method
cpg	276.14	J/molxK	594.02	Joback Method
cpg	262.83	J/molxK	556.83	Joback Method
cpg	248.64	J/molxK	519.64	Joback Method
cpg	233.55	J/molxK	482.46	Joback Method

cpg	300.28	J/molxK	668.39	Joback Method
dvisc	0.0003688	Paxs	445.27	Joback Method
dvisc	0.0004799	Paxs	410.36	Joback Method
dvisc	0.0006559	Paxs	375.46	Joback Method
dvisc	0.0009556	Paxs	340.55	Joback Method
dvisc	0.0015173	Paxs	305.64	Joback Method
dvisc	0.0027141	Paxs	270.74	Joback Method
dvisc	0.0057671	Paxs	235.83	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	349.70	K	3.50	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2550369&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
tb:	Normal Boiling Point Temperature

tbrp: Boiling point at reduced pressure
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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