Cyclohexane, 1-(cyclohexylmethyl)-2-methyl-, cis-

Other names: 1-(Cyclohexylmethyl)-2-methylcyclohexane, cis-
Inchi: InChI=1S/C14H26/c1-12-7-5-6-10-14(12)11-13-8-3-2-4-9-13/h12-14H,2-11H2,1H3/t12-,1
InchiKey: HJXAJTBTOWMAIA-JSGCOSHPSA-N
Formula: C14H26
SMILES: CC1CCCCC1CC1CCCCC1
Mol. weight [g/mol]: 194.36
CAS: 54824-04-3

Physical Properties

Property code	Value	Unit	Source
chl	-8263.00	kJ/mol	NIST Webbook
gf	108.19	kJ/mol	Joback Method
hf	-243.99	kJ/mol	Joback Method
hfus	16.76	kJ/mol	Joback Method
hvap	47.31	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	4.783		Crippen Method
mcvol	186.400	ml/mol	McGowan Method
pc	2094.58	kPa	Joback Method
tb	554.15	K	Joback Method
tc	777.71	K	Joback Method
tf	258.06	K	Joback Method
vc	0.684	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	490.28	J/mol×K	554.15	Joback Method
cpg	610.19	J/mol×K	740.45	Joback Method
cpg	589.27	J/mol×K	703.19	Joback Method
cpg	566.87	J/mol×K	665.93	Joback Method
cpg	542.93	J/mol×K	628.67	Joback Method
cpg	517.42	J/mol×K	591.41	Joback Method
cpg	629.67	J/mol×K	777.71	Joback Method

dvisc	0.0002391	Pa×s	554.15	Joback Method
dvisc	0.0003187	Pa×s	504.80	Joback Method
dvisc	0.0004522	Pa×s	455.45	Joback Method
dvisc	0.0006984	Pa×s	406.10	Joback Method
dvisc	0.0012166	Pa×s	356.76	Joback Method
dvisc	0.0025328	Pa×s	307.41	Joback Method
dvisc	0.0069798	Pa×s	258.06	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54824043&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

chl:	Standard liquid enthalpy of combustion
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume