

1,1'-Bicyclohexyl, 2-methyl-, cis-

Other names:	Bicyclohexyl, 2-methyl-, cis-
Inchi:	InChI=1S/C13H24/c1-11-7-5-6-10-13(11)12-8-3-2-4-9-12/h11-13H,2-10H2,1H3/t11-,13+
InchiKey:	SRCQYSQCKOUHTG-YPMHNCESA-N
Formula:	C13H24
SMILES:	CC1CCCCC1C1CCCCC1
Mol. weight [g/mol]:	180.33
CAS:	50991-08-7

Physical Properties

Property code	Value	Unit	Source
chl	-7761.00	kJ/mol	NIST Webbook
gf	99.77	kJ/mol	Joback Method
hf	-223.35	kJ/mol	Joback Method
hfus	14.17	kJ/mol	Joback Method
hvap	45.08	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	4.393		Crippen Method
mcvol	172.310	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
tb	531.27	K	Joback Method
tc	758.98	K	Joback Method
tf	246.79	K	Joback Method
vc	0.628	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	436.80	J/molxK	531.27	Joback Method
cpg	555.70	J/molxK	721.03	Joback Method
cpg	534.97	J/molxK	683.08	Joback Method
cpg	512.76	J/molxK	645.12	Joback Method
cpg	489.03	J/molxK	607.17	Joback Method
cpg	463.72	J/molxK	569.22	Joback Method
cpg	574.99	J/molxK	758.98	Joback Method

dvisc	0.0002573	Paxs	531.27	Joback Method
dvisc	0.0003416	Paxs	483.86	Joback Method
dvisc	0.0004821	Paxs	436.44	Joback Method
dvisc	0.0007403	Paxs	389.03	Joback Method
dvisc	0.0012802	Paxs	341.62	Joback Method
dvisc	0.0026414	Paxs	294.20	Joback Method
dvisc	0.0071989	Paxs	246.79	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C50991087&Units=SI

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

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