1,1'-Bicyclohexyl, 2-(1-methylethyl)-, cis-

Other names: Bicyclohexyl, 2-isopropyl-, cis-
Inchi: InChI=1S/C15H28/c1-12(2)14-10-6-7-11-15(14)13-8-4-3-5-9-13/h12-15H,3-11H2,1-2H3/t
InchiKey: XWULVJMSQHXLOJ-LSDHHAIUSA-N
Formula: C15H28
SMILES: CC(C)C1CCCCC1C1CCCCC1
Mol. weight [g/mol]: 208.38
CAS: 50991-15-6

Physical Properties

Property code	Value	Unit	Source
chs	-8954.00	kJ/mol	NIST Webbook
gf	114.17	kJ/mol	Joback Method
hf	-269.91	kJ/mol	Joback Method
hfus	15.82	kJ/mol	Joback Method
hvap	49.14	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	5.029		Crippen Method
mcvol	200.490	ml/mol	McGowan Method
pc	1935.54	kPa	Joback Method
tb	576.59	K	Joback Method
tc	800.93	K	Joback Method
tf	254.33	K	Joback Method
vc	0.735	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	545.45	J/mol×K	576.59	Joback Method
cpg	573.36	J/mol×K	613.98	Joback Method
cpg	599.56	J/mol×K	651.37	Joback Method
cpg	624.09	J/mol×K	688.76	Joback Method
cpg	647.02	J/mol×K	726.15	Joback Method
cpg	668.39	J/mol×K	763.54	Joback Method
cpg	688.24	J/mol×K	800.93	Joback Method

dvisc	0.0098872	Pa×s	254.33	Joback Method
dvisc	0.0029553	Pa×s	308.04	Joback Method
dvisc	0.0012644	Pa×s	361.75	Joback Method
dvisc	0.0006737	Pa×s	415.46	Joback Method
dvisc	0.0004147	Pa×s	469.17	Joback Method
dvisc	0.0002820	Pa×s	522.88	Joback Method
dvisc	0.0002060	Pa×s	576.59	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C50991156&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

chs:	Standard solid 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