Cyclohexane, 1-(cyclohexylmethyl)-4-ethyl-, cis-

Other names: 1-(Cyclohexylmethyl)-4-ethylcyclohexane, (Z)-
Inchi: InChI=1S/C15H28/c1-2-13-8-10-15(11-9-13)12-14-6-4-3-5-7-14/h13-15H,2-12H2,1H3/t13
InchiKey: NKFHIHVCTLOXCA-OTVXOJSOSA-N
Formula: C15H28
SMILES: CCC1CCC(CC2CCCCC2)CC1
Mol. weight [g/mol]: 208.38
CAS: 54934-95-1

Physical Properties

Property code	Value	Unit	Source
chl	-9548.00	kJ/mol	NIST Webbook
gf	116.61	kJ/mol	Joback Method
hf	-264.63	kJ/mol	Joback Method
hfus	19.35	kJ/mol	Joback Method
hvap	49.53	kJ/mol	Joback Method
log10ws	-5.17		Crippen Method
logp	5.173		Crippen Method
mcvol	200.490	ml/mol	McGowan Method
pc	1921.98	kPa	Joback Method
tb	577.03	K	Joback Method
tc	796.57	K	Joback Method
tf	269.33	K	Joback Method
vc	0.741	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	545.22	J/mol×K	577.03	Joback Method
cpg	665.67	J/mol×K	759.98	Joback Method
cpg	644.65	J/mol×K	723.39	Joback Method
cpg	622.14	J/mol×K	686.80	Joback Method
cpg	598.09	J/mol×K	650.21	Joback Method
cpg	572.47	J/mol×K	613.62	Joback Method
cpg	685.25	J/mol×K	796.57	Joback Method

dvisc	0.0002201	Pa×s	577.03	Joback Method
dvisc	0.0002946	Pa×s	525.75	Joback Method
dvisc	0.0004198	Pa×s	474.46	Joback Method
dvisc	0.0006520	Pa×s	423.18	Joback Method
dvisc	0.0011434	Pa×s	371.90	Joback Method
dvisc	0.0023998	Pa×s	320.61	Joback Method
dvisc	0.0066797	Pa×s	269.33	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54934951&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

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