

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

Other names:	1-(Cyclohexylmethyl)-2-ethylcyclohexane, (Z)-
Inchi:	InChI=1S/C15H28/c1-2-14-10-6-7-11-15(14)12-13-8-4-3-5-9-13/h13-15H,2-12H2,1H3/t14
InchiKey:	URV NKHZFT HAXFF-GJZGRUSLSA-N
Formula:	C15H28
SMILES:	CCC1CCCCC1CC1CCCCC1
Mol. weight [g/mol]:	208.38
CAS:	54934-93-9

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/molxK	577.03	Joback Method
cpg	665.67	J/molxK	759.98	Joback Method
cpg	644.65	J/molxK	723.39	Joback Method
cpg	622.14	J/molxK	686.80	Joback Method
cpg	598.09	J/molxK	650.21	Joback Method
cpg	572.47	J/molxK	613.62	Joback Method
cpg	685.25	J/molxK	796.57	Joback Method

dvisc	0.0002201	Paxs	577.03	Joback Method
dvisc	0.0002946	Paxs	525.75	Joback Method
dvisc	0.0004198	Paxs	474.46	Joback Method
dvisc	0.0006520	Paxs	423.18	Joback Method
dvisc	0.0011434	Paxs	371.90	Joback Method
dvisc	0.0023998	Paxs	320.61	Joback Method
dvisc	0.0066797	Paxs	269.33	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=C54934939&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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