

# Cyclohexane, 1-(cyclohexylmethyl)-2-ethyl-, trans-

Other names:	1-(Cyclohexylmethyl)-2-ethylcyclohexane, trans-
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:	URVKNHZFTHAXFF-CABCVRRESA-N
Formula:	C15H28
SMILES:	CCC1CCCCC1CC1CCCCC1
Mol. weight [g/mol]:	208.38
CAS:	54934-92-8

## Physical Properties

Property code	Value	Unit	Source
chl	-9611.00	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

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C54934928&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54934928&amp;Units=SI</a>

## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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