

# Cyclohexane, 1,1',1''-(1-ethanyl-2-ylidene)tris-

<b>Other names:</b>	1,1,2-tricyclohexylethane
<b>Inchi:</b>	InChI=1S/C20H36/c1-4-10-17(11-5-1)16-20(18-12-6-2-7-13-18)19-14-8-3-9-15-19/h17-20
<b>InchiKey:</b>	ZRLRQTYAHVRATD-UHFFFAOYSA-N
<b>Formula:</b>	C20H36
<b>SMILES:</b>	C1CCC(CC(C2CCCCC2)C2CCCCC2)CC1
<b>Mol. weight [g/mol]:</b>	276.50
<b>CAS:</b>	55682-86-5

## Physical Properties

Property code	Value	Unit	Source
gf	188.43	kJ/mol	Joback Method
hf	-298.45	kJ/mol	Joback Method
hfus	19.54	kJ/mol	Joback Method
hvap	61.01	kJ/mol	Joback Method
log10ws	-6.91		Crippen Method
logp	6.734		Crippen Method
mcvol	260.080	ml/mol	McGowan Method
pc	1580.97	kPa	Joback Method
tb	715.21	K	Joback Method
tc	955.02	K	Joback Method
tf	322.30	K	Joback Method
vc	0.949	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	837.05	J/molxK	715.21	Joback Method
cpg	967.10	J/molxK	915.05	Joback Method
cpg	945.38	J/molxK	875.08	Joback Method
cpg	921.61	J/molxK	835.12	Joback Method
cpg	895.70	J/molxK	795.15	Joback Method
cpg	867.55	J/molxK	755.18	Joback Method
cpg	986.87	J/molxK	955.02	Joback Method
dvisc	0.0001044	Paxs	715.21	Joback Method

dvisc	0.0001507	Paxs	649.73	Joback Method
dvisc	0.0002361	Paxs	584.24	Joback Method
dvisc	0.0004145	Paxs	518.75	Joback Method
dvisc	0.0008560	Paxs	453.27	Joback Method
dvisc	0.0022586	Paxs	387.78	Joback Method
dvisc	0.0088398	Paxs	322.30	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C55682865&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55682865&amp;Units=SI</a>
<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>

## Legend

<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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