

# Cyclohexane, 1r,2t,4t-triethyl

<b>Inchi:</b>	InChI=1S/C12H24/c1-4-10-7-8-11(5-2)12(6-3)9-10/h10-12H,4-9H2,1-3H3/t10-,11-,12-/m
<b>InchiKey:</b>	UAVQBNTWBGIJRO-IJLUTSLNSA-N
<b>Formula:</b>	C12H24
<b>SMILES:</b>	CCC1CCC(CC)C(CC)C1
<b>Mol. weight [g/mol]:</b>	168.32

## Physical Properties

Property code	Value	Unit	Source
gf	59.19	kJ/mol	Joback Method
hf	-277.37	kJ/mol	Joback Method
hfus	20.81	kJ/mol	Joback Method
hvap	42.12	kJ/mol	Joback Method
log10ws	-4.02		Crippen Method
logp	4.249		Crippen Method
mcvol	169.080	ml/mol	McGowan Method
pc	2009.10	kPa	Joback Method
rinpol	1165.00		NIST Webbook
rinpol	1165.00		NIST Webbook
tb	484.17	K	Joback Method
tc	675.86	K	Joback Method
tf	223.90	K	Joback Method
vc	0.638	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.69	J/molxK	484.17	Joback Method
cpg	416.33	J/molxK	516.12	Joback Method
cpg	437.01	J/molxK	548.07	Joback Method
cpg	456.75	J/molxK	580.01	Joback Method
cpg	475.57	J/molxK	611.96	Joback Method
cpg	493.49	J/molxK	643.91	Joback Method
cpg	510.52	J/molxK	675.86	Joback Method
dvisc	0.0033609	Paxs	223.90	Joback Method

dvisc	0.0015483	Paxs	267.28	Joback Method
dvisc	0.0008856	Paxs	310.66	Joback Method
dvisc	0.0005809	Paxs	354.03	Joback Method
dvisc	0.0004178	Paxs	397.41	Joback Method
dvisc	0.0003206	Paxs	440.79	Joback Method
dvisc	0.0002580	Paxs	484.17	Joback Method

## Sources

<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=R10945&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R10945&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>

## Legend

<b>cp<sub>g</sub>:</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<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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