

# 1,1':3',1''-Tercyclopentane

<b>Other names:</b>	Cyclopentane, 1,3-dicyclopentyl- 1,3-Dicyclopentylcyclopentane
<b>Inchi:</b>	InChI=1S/C15H26/c1-2-6-12(5-1)14-9-10-15(11-14)13-7-3-4-8-13/h12-15H,1-11H2
<b>InchiKey:</b>	VUIQTOLVCLYLAF-UHFFFAOYSA-N
<b>Formula:</b>	C15H26
<b>SMILES:</b>	C1CCC(C2CCC(C3CCCC3)C2)C1
<b>Mol. weight [g/mol]:</b>	206.37
<b>CAS:</b>	6051-40-7

## Physical Properties

Property code	Value	Unit	Source
gf	177.36	kJ/mol	Joback Method
hf	-191.83	kJ/mol	Joback Method
hfus	17.48	kJ/mol	Joback Method
hvap	49.45	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.783		Crippen Method
mvol	189.630	ml/mol	McGowan Method
pc	2161.32	kPa	Joback Method
tb	583.77	K	Joback Method
tc	819.87	K	Joback Method
tf	287.27	K	Joback Method
vc	0.698	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	532.91	J/molxK	583.77	Joback Method
cpg	561.58	J/molxK	623.12	Joback Method
cpg	588.27	J/molxK	662.47	Joback Method
cpg	613.08	J/molxK	701.82	Joback Method
cpg	636.10	J/molxK	741.17	Joback Method
cpg	657.43	J/molxK	780.52	Joback Method
cpg	677.16	J/molxK	819.87	Joback Method

cpl	363.60	J/mol×K	313.00	NIST Webbook
dvisc	0.0043320	Paxs	287.27	Joback Method
dvisc	0.0023371	Paxs	336.69	Joback Method
dvisc	0.0014766	Paxs	386.10	Joback Method
dvisc	0.0010354	Paxs	435.52	Joback Method
dvisc	0.0007805	Paxs	484.94	Joback Method
dvisc	0.0006199	Paxs	534.35	Joback Method
dvisc	0.0005120	Paxs	583.77	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6051407&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6051407&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>cpl:</b>	Liquid phase 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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