

# Cyclohexane, 1-methyl-2-pentyl-

<b>Inchi:</b>	InChI=1S/C12H24/c1-3-4-5-9-12-10-7-6-8-11(12)2/h11-12H,3-10H2,1-2H3
<b>InchiKey:</b>	NBAUUOZAFSUIPB-UHFFFAOYSA-N
<b>Formula:</b>	C12H24
<b>SMILES:</b>	CCCCC1CCCC1C
<b>Mol. weight [g/mol]:</b>	168.32
<b>CAS:</b>	54411-01-7

## Physical Properties

Property code	Value	Unit	Source
gf	66.90	kJ/mol	Joback Method
hf	-257.03	kJ/mol	Joback Method
hfus	19.74	kJ/mol	Joback Method
hvap	42.43	kJ/mol	Joback Method
log10ws	-4.26		Crippen Method
logp	4.393		Crippen Method
mcvol	169.080	ml/mol	McGowan Method
pc	2069.88	kPa	Joback Method
tb	490.60 ± 4.00	K	NIST Webbook
tb	490.40 ± 4.00	K	NIST Webbook
tc	680.82	K	Joback Method
tf	228.14	K	Joback Method
vc	0.639	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.98	J/mol×K	488.84	Joback Method
cpg	416.25	J/mol×K	520.84	Joback Method
cpg	436.55	J/mol×K	552.83	Joback Method
cpg	455.89	J/mol×K	584.83	Joback Method
cpg	474.29	J/mol×K	616.82	Joback Method
cpg	491.79	J/mol×K	648.82	Joback Method
cpg	508.39	J/mol×K	680.82	Joback Method
dvisc	0.0053664	Paxs	228.14	Joback Method

dvisc	0.0021311	Paxs	271.59	Joback Method
dvisc	0.0010919	Paxs	315.04	Joback Method
dvisc	0.0006578	Paxs	358.49	Joback Method
dvisc	0.0004422	Paxs	401.94	Joback Method
dvisc	0.0003213	Paxs	445.39	Joback Method
dvisc	0.0002470	Paxs	488.84	Joback Method

## Sources

<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=C54411017&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54411017&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>

## 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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