

# Cyclopentane, 1-methyl-3-pentyl, trans

<b>Other names:</b>	trans-1-Methyl-3-pentylcyclopentane
<b>Inchi:</b>	InChI=1S/C11H22/c1-3-4-5-6-11-8-7-10(2)9-11/h10-11H,3-9H2,1-2H3/t10-,11-/m1/s1
<b>InchiKey:</b>	XFMOFFBDPKPNKZ-GHMZBOCLSA-N
<b>Formula:</b>	C11H22
<b>SMILES:</b>	CCCCC1CCC(C)C1
<b>Mol. weight [g/mol]:</b>	154.29

## Physical Properties

Property code	Value	Unit	Source
gf	70.58	kJ/mol	Joback Method
hf	-230.23	kJ/mol	Joback Method
hfus	19.25	kJ/mol	Joback Method
hvap	40.03	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	4.003		Crippen Method
mcvol	154.990	ml/mol	McGowan Method
pc	2210.37	kPa	Joback Method
rinpol	1091.00		NIST Webbook
rinpol	1087.00		NIST Webbook
rinpol	1091.00		NIST Webbook
rinpol	1095.00		NIST Webbook
rinpol	1087.00		NIST Webbook
rinpol	1095.00		NIST Webbook
tb	461.69	K	Joback Method
tc	648.77	K	Joback Method
tf	220.39	K	Joback Method
vc	0.592	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.22	J/molxK	461.69	Joback Method
cpg	365.75	J/molxK	492.87	Joback Method
cpg	384.40	J/molxK	524.05	Joback Method

cpg	402.19	J/molxK	555.23	Joback Method
cpg	419.15	J/molxK	586.41	Joback Method
cpg	435.30	J/molxK	617.59	Joback Method
cpg	450.67	J/molxK	648.77	Joback Method
dvisc	0.0033159	Paxs	220.39	Joback Method
dvisc	0.0016355	Paxs	260.61	Joback Method
dvisc	0.0009745	Paxs	300.82	Joback Method
dvisc	0.0006560	Paxs	341.04	Joback Method
dvisc	0.0004801	Paxs	381.26	Joback Method
dvisc	0.0003729	Paxs	421.47	Joback Method
dvisc	0.0003027	Paxs	461.69	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=R10696&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R10696&amp;Units=SI</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>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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