

# Cyclopropane, nonyl-

<b>Other names:</b>	n-Nonyl-cyclopropane
<b>Inchi:</b>	InChI=1S/C12H24/c1-2-3-4-5-6-7-8-9-12-10-11-12/h12H,2-11H2,1H3
<b>InchiKey:</b>	DTLF3MAJ5OYMCO-UHFFFAOYSA-N
<b>Formula:</b>	C12H24
<b>SMILES:</b>	CCCCCCCCC1CC1
<b>Mol. weight [g/mol]:</b>	168.32
<b>CAS:</b>	74663-85-7

## Physical Properties

Property code	Value	Unit	Source
gf	110.91	kJ/mol	Joback Method
hf	-218.21	kJ/mol	Joback Method
hfus	24.97	kJ/mol	Joback Method
hvap	42.22	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	4.537		Crippen Method
mcvol	169.080	ml/mol	McGowan Method
pc	1992.98	kPa	Joback Method
rinpol	1285.00		NIST Webbook
rinpol	1285.00		NIST Webbook
rinpol	1216.00		NIST Webbook
tb	480.70	K	Joback Method
tc	653.50	K	Joback Method
tf	242.94	K	Joback Method
vc	0.664	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.53	J/mol×K	480.70	Joback Method
cpg	411.49	J/mol×K	509.50	Joback Method
cpg	428.63	J/mol×K	538.30	Joback Method
cpg	444.98	J/mol×K	567.10	Joback Method
cpg	460.57	J/mol×K	595.90	Joback Method

cpg	475.44	J/mol×K	624.70	Joback Method
cpg	489.62	J/mol×K	653.50	Joback Method
dvisc	0.0026676	Paxs	242.94	Joback Method
dvisc	0.0015644	Paxs	282.57	Joback Method
dvisc	0.0010461	Paxs	322.19	Joback Method
dvisc	0.0007640	Paxs	361.82	Joback Method
dvisc	0.0005937	Paxs	401.45	Joback Method
dvisc	0.0004827	Paxs	441.07	Joback Method
dvisc	0.0004061	Paxs	480.70	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=C74663857&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C74663857&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>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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