

# Methylcycloundecane

<b>Inchi:</b>	InChI=1S/C12H24/c1-12-10-8-6-4-2-3-5-7-9-11-12/h12H,2-11H2,1H3
<b>InchiKey:</b>	IJZPIQZCQMCZQN-UHFFFAOYSA-N
<b>Formula:</b>	C12H24
<b>SMILES:</b>	CC1CCCCCCCCCCC1
<b>Mol. weight [g/mol]:</b>	168.32

## Physical Properties

Property code	Value	Unit	Source
gf	14.11	kJ/mol	Joback Method
hf	-267.49	kJ/mol	Joback Method
hfus	8.17	kJ/mol	Joback Method
hvap	43.59	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	4.537		Crippen Method
mcvol	169.080	ml/mol	McGowan Method
pc	2402.92	kPa	Joback Method
rinsol	1288.00		NIST Webbook
tb	514.86	K	Joback Method
tc	746.25	K	Joback Method
tf	214.78	K	Joback Method
vc	0.601	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	399.99	J/molxK	514.86	Joback Method
cpg	520.34	J/molxK	707.69	Joback Method
cpg	499.21	J/molxK	669.12	Joback Method
cpg	476.60	J/molxK	630.56	Joback Method
cpg	452.53	J/molxK	591.99	Joback Method
cpg	426.99	J/molxK	553.43	Joback Method
cpg	540.00	J/molxK	746.25	Joback Method
dvisc	0.0000817	Paxs	514.86	Joback Method
dvisc	0.0001415	Paxs	464.85	Joback Method

dvisc	0.0002800	Paxs	414.83	Joback Method
dvisc	0.0006681	Paxs	364.82	Joback Method
dvisc	0.0021016	Paxs	314.81	Joback Method
dvisc	0.0101910	Paxs	264.79	Joback Method
dvisc	0.1030923	Paxs	214.78	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R133438&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R133438&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>
<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>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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