

# 1-ethyl-2-methyl Cyclododecane

<b>Inchi:</b>	InChI=1S/C15H30/c1-3-15-13-11-9-7-5-4-6-8-10-12-14(15)2/h14-15H,3-13H2,1-2H3
<b>InchiKey:</b>	IGEBPPWLYTWODA-UHFFFAOYSA-N
<b>Formula:</b>	C15H30
<b>SMILES:</b>	CCC1CCCCCCCCCCC1C
<b>Mol. weight [g/mol]:</b>	210.40

## Physical Properties

Property code	Value	Unit	Source
gf	19.56	kJ/mol	Joback Method
hf	-355.91	kJ/mol	Joback Method
hfus	14.91	kJ/mol	Joback Method
hvap	50.14	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	5.563		Crippen Method
mcvol	211.350	ml/mol	McGowan Method
pc	1832.54	kPa	Joback Method
rinpol	1488.00		NIST Webbook
rinpol	1488.00		NIST Webbook
tb	583.10	K	Joback Method
tc	809.77	K	Joback Method
tf	240.83	K	Joback Method
vc	0.759	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	564.69	J/molxK	583.10	Joback Method
cpg	695.66	J/molxK	771.99	Joback Method
cpg	672.91	J/molxK	734.21	Joback Method
cpg	648.43	J/molxK	696.43	Joback Method
cpg	622.22	J/molxK	658.66	Joback Method
cpg	594.31	J/molxK	620.88	Joback Method
cpg	716.66	J/molxK	809.77	Joback Method
dvisc	0.0000441	Paxs	583.10	Joback Method

dvisc	0.0000753	Paxs	526.06	Joback Method
dvisc	0.0001466	Paxs	469.01	Joback Method
dvisc	0.0003429	Paxs	411.97	Joback Method
dvisc	0.0010547	Paxs	354.92	Joback Method
dvisc	0.0049882	Paxs	297.88	Joback Method
dvisc	0.0492514	Paxs	240.83	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R333950&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R333950&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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