

# Tetracyclo[6.2.1.0(2,7).o(3,5)]undecane

**Inchi:** InChI=1S/C11H16/c1-2-7-3-6(1)9-4-8-5-10(8)11(7)9/h6-11H,1-5H2  
**InchiKey:** VBMPZIREYOVDPP-UHFFFAOYSA-N  
**Formula:** C11H16  
**SMILES:** C1CC2CC1C1CC3CC3C21  
**Mol. weight [g/mol]:** 148.24  
**CAS:** 1777-44-2

## Physical Properties

Property code	Value	Unit	Source
chl	-6619.10 ± 3.60	kJ/mol	NIST Webbook
gf	281.42	kJ/mol	Joback Method
hf	59.00 ± 3.60	kJ/mol	NIST Webbook
hfl	3.80 ± 3.60	kJ/mol	NIST Webbook
hfus	21.03	kJ/mol	Joback Method
hvap	55.20 ± 0.50	kJ/mol	NIST Webbook
hvap	55.20	kJ/mol	NIST Webbook
hvap	55.30 ± 0.30	kJ/mol	NIST Webbook
log10ws	-2.56		Crippen Method
logp	2.688		Crippen Method
mcvol	122.410	ml/mol	McGowan Method
pc	2937.70	kPa	Joback Method
tb	464.43	K	Joback Method
tc	675.33	K	Joback Method
tf	280.53	K	Joback Method
vc	0.485	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.28	J/mol×K	464.43	Joback Method
cpg	326.72	J/mol×K	499.58	Joback Method
cpg	346.54	J/mol×K	534.73	Joback Method
cpg	364.87	J/mol×K	569.88	Joback Method
cpg	381.83	J/mol×K	605.03	Joback Method

cpg	397.56	J/molxK	640.18	Joback Method
cpg	412.17	J/molxK	675.33	Joback Method
dvisc	0.0004222	Paxs	280.53	Joback Method
dvisc	0.0006965	Paxs	311.18	Joback Method
dvisc	0.0010505	Paxs	341.83	Joback Method
dvisc	0.0014807	Paxs	372.48	Joback Method
dvisc	0.0019809	Paxs	403.13	Joback Method
dvisc	0.0025433	Paxs	433.78	Joback Method
dvisc	0.0031595	Paxs	464.43	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=C1777442&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1777442&amp;Units=SI</a>

## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<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>hfl:</b>	Liquid phase 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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