

# Isolongifolanone

<b>Other names:</b>	1,4-Methanoazulen-2(1H)-one, octahydro-4,8,8,9-tetramethyl-, (1«alpha»,3a«beta»,4«alpha»,8a«beta»,9S*)-octahydro-4,8,8,9-tetramethyl-1,4-methano-
<b>Inchi:</b>	InChI=1S/C15H24O/c1-9-12-11(16)8-10-13(12)14(2,3)6-5-7-15(9,10)4/h9-10,12-13H,5-8
<b>InchiKey:</b>	XROGGPRBZBLTOH-COPWDGIASA-N
<b>Formula:</b>	C15H24O
<b>SMILES:</b>	CC1C2C(=O)CC3C2C(C)(C)CCCC13C
<b>Mol. weight [g/mol]:</b>	220.35
<b>CAS:</b>	14727-47-0

## Physical Properties

Property code	Value	Unit	Source
gf	76.77	kJ/mol	Joback Method
hf	-315.09	kJ/mol	Joback Method
hfus	14.94	kJ/mol	Joback Method
hvap	50.08	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.674		Crippen Method
mcvol	191.200	ml/mol	McGowan Method
pc	2081.22	kPa	Joback Method
ripol	1579.60		NIST Webbook
ripol	1610.00		NIST Webbook
ripol	1622.00		NIST Webbook
ripol	1620.00		NIST Webbook
ripol	1620.00		NIST Webbook
ripol	1577.90		NIST Webbook
ripol	1610.00		NIST Webbook
ripol	2037.40		NIST Webbook
ripol	2072.00		NIST Webbook
ripol	2032.90		NIST Webbook
ripol	2072.00		NIST Webbook
ripol	2032.90		NIST Webbook
tb	625.65	K	Joback Method
tc	861.18	K	Joback Method
tf	408.89	K	Joback Method
vc	0.731	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	566.07	J/molxK	625.65	Joback Method
cpg	589.71	J/molxK	664.90	Joback Method
cpg	612.09	J/molxK	704.16	Joback Method
cpg	633.49	J/molxK	743.41	Joback Method
cpg	654.20	J/molxK	782.67	Joback Method
cpg	674.52	J/molxK	821.92	Joback Method
cpg	694.73	J/molxK	861.18	Joback Method

## Sources

<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=C14727470&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14727470&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	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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