

# Cyclocopacamphan-12-al

<b>Inchi:</b>	InChI=1S/C15H22O/c1-8(7-16)9-4-5-14(2)10-6-11-13(12(9)10)15(11,14)3/h7-13H,4-6H2
<b>InchiKey:</b>	JLHUXFWGEBRDST-ZGWIHEAISA-N
<b>Formula:</b>	C15H22O
<b>SMILES:</b>	CC(C=O)C1CCC2(C)C3CC4C(C13)C42C
<b>Mol. weight [g/mol]:</b>	218.33

## Physical Properties

Property code	Value	Unit	Source
gf	206.55	kJ/mol	Joback Method
hf	-170.81	kJ/mol	Joback Method
hfus	20.73	kJ/mol	Joback Method
hvap	51.39	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	3.140		Crippen Method
mcvol	180.340	ml/mol	McGowan Method
pc	2235.52	kPa	Joback Method
rinpol	1562.00		NIST Webbook
rinpol	1562.00		NIST Webbook
rinpol	1562.00		NIST Webbook
tb	595.71	K	Joback Method
tc	810.79	K	Joback Method
tf	399.69	K	Joback Method
vc	0.724	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	532.24	J/molxK	595.71	Joback Method
cpg	551.99	J/molxK	631.56	Joback Method
cpg	570.42	J/molxK	667.40	Joback Method
cpg	587.84	J/molxK	703.25	Joback Method
cpg	604.57	J/molxK	739.10	Joback Method
cpg	620.91	J/molxK	774.95	Joback Method
cpg	637.19	J/molxK	810.79	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R198940&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R198940&amp;Units=SI</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>hvp:</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>rinp:</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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