

# 15-Copaenol

<b>Inchi:</b>	InChI=1S/C15H24O/c1-9(2)11-6-7-15(8-16)12-5-4-10(3)14(15)13(11)12/h4,9,11-14,16H,
<b>InchiKey:</b>	FJQZXWCSOKYVLO-WXVWGLJDSA-N
<b>Formula:</b>	C15H24O
<b>SMILES:</b>	CC1=CCC2C3C(C(C)C)CCC2(CO)C13
<b>Mol. weight [g/mol]:</b>	220.35

## Physical Properties

Property code	Value	Unit	Source
gf	105.73	kJ/mol	Joback Method
hf	-277.33	kJ/mol	Joback Method
hfus	24.15	kJ/mol	Joback Method
hvap	64.37	kJ/mol	Joback Method
log10ws	-3.45		Crippen Method
logp	3.243		Crippen Method
mvol	191.200	ml/mol	McGowan Method
pc	2177.49	kPa	Joback Method
rinpol	1563.00		NIST Webbook
rinpol	1563.00		NIST Webbook
tb	653.87	K	Joback Method
tc	853.56	K	Joback Method
tf	383.63	K	Joback Method
vc	0.734	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.92	J/mol×K	653.87	Joback Method
cpg	594.00	J/mol×K	687.15	Joback Method
cpg	611.17	J/mol×K	720.43	Joback Method
cpg	627.59	J/mol×K	753.72	Joback Method
cpg	643.38	J/mol×K	787.00	Joback Method
cpg	658.71	J/mol×K	820.28	Joback Method
cpg	673.73	J/mol×K	853.56	Joback Method

# Sources

<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=R518097&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R518097&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>h vap:</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>r in pol:</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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