

# copadiene

<b>Inchi:</b>	InChI=1S/C15H22/c1-9(2)12-8-15(4)13-6-5-10(3)14(15)7-11(12)13/h5-6,9,11-14H,3,7-8H
<b>InchiKey:</b>	QCLBLMICOAAQOH-UHFFFAOYSA-N
<b>Formula:</b>	C15H22
<b>SMILES:</b>	C=C1C=CC2C3CC1C2(C)CC3C(C)C
<b>Mol. weight [g/mol]:</b>	202.34

## Physical Properties

Property code	Value	Unit	Source
gf	305.26	kJ/mol	Joback Method
hf	-29.39	kJ/mol	Joback Method
hfus	19.29	kJ/mol	Joback Method
hvap	47.19	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	4.047		Crippen Method
mcvol	181.030	ml/mol	McGowan Method
pc	2064.24	kPa	Joback Method
rinsol	1355.00		NIST Webbook
tb	555.87	K	Joback Method
tc	770.49	K	Joback Method
tf	323.97	K	Joback Method
vc	0.699	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	482.38	J/mol×K	555.87	Joback Method
cpg	504.05	J/mol×K	591.64	Joback Method
cpg	524.27	J/mol×K	627.41	Joback Method
cpg	543.20	J/mol×K	663.18	Joback Method
cpg	561.04	J/mol×K	698.95	Joback Method
cpg	577.96	J/mol×K	734.72	Joback Method
cpg	594.13	J/mol×K	770.49	Joback Method

# Sources

<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=R334260&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R334260&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>

# 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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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