

# «beta»-caryophyllene hydrate

<b>Inchi:</b>	InChI=1S/C15H26O/c1-11-6-5-8-15(4,16)9-7-13-12(11)10-14(13,2)3/h12-13,16H,1,5-10H
<b>InchiKey:</b>	KTBRVRYPKGILD-UHFFFAOYSA-N
<b>Formula:</b>	C15H26O
<b>SMILES:</b>	C=C1CCCC(C)(O)CCC2C1CC2(C)C
<b>Mol. weight [g/mol]:</b>	222.37

## Physical Properties

Property code	Value	Unit	Source
gf	26.28	kJ/mol	Joback Method
hf	-316.32	kJ/mol	Joback Method
hfus	12.85	kJ/mol	Joback Method
hvap	63.59	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.920		Crippen Method
mcvol	202.060	ml/mol	McGowan Method
pc	2187.68	kPa	Joback Method
rinpol	1553.00		NIST Webbook
rinpol	1553.00		NIST Webbook
ripol	2021.00		NIST Webbook
tb	659.91	K	Joback Method
tc	873.53	K	Joback Method
tf	390.91	K	Joback Method
vc	0.747	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	595.57	J/mol×K	659.91	Joback Method
cpg	616.20	J/mol×K	695.51	Joback Method
cpg	635.93	J/mol×K	731.12	Joback Method
cpg	654.95	J/mol×K	766.72	Joback Method
cpg	673.48	J/mol×K	802.32	Joback Method
cpg	691.70	J/mol×K	837.93	Joback Method
cpg	709.81	J/mol×K	873.53	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=R238187&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R238187&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ri<sub>npol</sub>:</b>	Non-polar retention indices
<b>ri<sub>pol</sub>:</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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