

# 14-Acetoxy-«beta»-caryophyllene

<b>Other names:</b>	14-Acetoxy-«beta»-caryophyllene (=«alpha»-Betulenol acetate) 14-Acetoxy- «beta»-caryophyllene («alpha»-betulenol acetate)
<b>Inchi:</b>	InChI=1S/C17H26O2/c1-12-6-5-7-14(11-19-13(2)18)8-9-16-15(12)10-17(16,3)4/h7,15-16
<b>InchiKey:</b>	XLKYRVILZQUEJC-AUWJEWJLSA-N
<b>Formula:</b>	C17H26O2
<b>SMILES:</b>	<chem>C=C1CCC=C(COC(C)=O)CCC2C1CC2(C)C</chem>
<b>Mol. weight [g/mol]:</b>	262.39

## Physical Properties

Property code	Value	Unit	Source
gf	-20.45	kJ/mol	Joback Method
hf	-398.76	kJ/mol	Joback Method
hfus	22.79	kJ/mol	Joback Method
hvap	62.93	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	4.268		Crippen Method
mcvol	227.510	ml/mol	McGowan Method
pc	1784.86	kPa	Joback Method
ripol	2272.00		NIST Webbook
ripol	2272.00		NIST Webbook
ripol	2310.00		NIST Webbook
ripol	2310.00		NIST Webbook
ripol	2272.00		NIST Webbook
ripol	2272.00		NIST Webbook
ripol	2272.00		NIST Webbook
ripol	2272.00		NIST Webbook
tb	698.35	K	Joback Method
tc	919.73	K	Joback Method
tf	418.41	K	Joback Method
vc	0.853	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	669.66	J/mol×K	698.35	Joback Method
cpg	691.18	J/mol×K	735.25	Joback Method
cpg	711.58	J/mol×K	772.14	Joback Method
cpg	730.98	J/mol×K	809.04	Joback Method
cpg	749.50	J/mol×K	845.93	Joback Method
cpg	767.26	J/mol×K	882.83	Joback Method
cpg	784.38	J/mol×K	919.73	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=R336122&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R336122&amp;Units=SI</a>
<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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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>	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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