

# 4,4-Dimethylcholestanol acetate

**Inchi:** InChI=1S/C31H54O2/c1-20(2)10-9-11-21(3)24-13-14-25-23-12-15-27-29(5,6)28(33-22(4)  
**InchiKey:** NRAWYCKLTCALTN-MGWJKQGHSA-N  
**Formula:** C31H54O2  
**SMILES:** CC(=O)OC1CCC2(C)C3CCC4(C)C(C(C)CCCC(C)C)CCC4C3CCC2C1(C)C  
**Mol. weight [g/mol]:** 458.76

## Physical Properties

Property code	Value	Unit	Source
gf	98.82	kJ/mol	Joback Method
hf	-734.11	kJ/mol	Joback Method
hfus	40.29	kJ/mol	Joback Method
hvap	88.49	kJ/mol	Joback Method
log10ws	-8.94		Crippen Method
logp	8.675		Crippen Method
mvol	411.650	ml/mol	McGowan Method
pc	808.45	kPa	Joback Method
rinpol	3316.00		NIST Webbook
tb	1009.77	K	Joback Method
tc	1241.64	K	Joback Method
tf	585.95	K	Joback Method
vc	1.560	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1620.48	J/mol×K	1009.77	Joback Method
cpg	1661.32	J/mol×K	1048.42	Joback Method
cpg	1703.82	J/mol×K	1087.06	Joback Method
cpg	1748.45	J/mol×K	1125.71	Joback Method
cpg	1795.64	J/mol×K	1164.35	Joback Method
cpg	1845.85	J/mol×K	1203.00	Joback Method
cpg	1899.52	J/mol×K	1241.64	Joback Method

# Sources

<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>
<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=R110693&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R110693&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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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