

# 5,23-Stigmastadienol acetate

**Inchi:** InChI=1S/C31H50O2/c1-8-23(20(2)3)10-9-21(4)27-13-14-28-26-12-11-24-19-25(33-22(5)  
**InchiKey:** WXYOEOGKDKKAGX-OHYLKESYSA-N  
**Formula:** C31H50O2  
**SMILES:** CCC(=CCC(C)C1CCC2C3CC=C4CC(OC(C)=O)CCC4(C)C3CCC12C)C(C)C  
**Mol. weight [g/mol]:** 454.73

## Physical Properties

Property code	Value	Unit	Source
gf	211.73	kJ/mol	Joback Method
hf	-554.93	kJ/mol	Joback Method
hfus	44.17	kJ/mol	Joback Method
hvap	91.25	kJ/mol	Joback Method
log10ws	-9.13		Crippen Method
logp	8.516		Crippen Method
mvol	403.050	ml/mol	McGowan Method
pc	855.96	kPa	Joback Method
rinpol	3341.00		NIST Webbook
tb	1027.05	K	Joback Method
tc	1263.32	K	Joback Method
tf	564.77	K	Joback Method
vc	1.532	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1548.69	J/molxK	1027.05	Joback Method
cpg	1584.51	J/molxK	1066.43	Joback Method
cpg	1621.46	J/molxK	1105.81	Joback Method
cpg	1659.93	J/molxK	1145.19	Joback Method
cpg	1700.32	J/molxK	1184.57	Joback Method
cpg	1743.03	J/molxK	1223.94	Joback Method
cpg	1788.44	J/molxK	1263.32	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R110777&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R110777&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>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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