

# Cholesta-5,24-dien-3-ol, acetate, (3«beta»)-

**Other names:**

Cholesta-5,24-dien-3«beta»-ol, acetate

Cholesta-5,24-dien-3«beta»-yl acetate

Desmosterol acetate

Desmosteryl acetate

**Inchi:** InChI=1S/C29H46O2/c1-19(2)8-7-9-20(3)25-12-13-26-24-11-10-22-18-23(31-21(4)30)14**InchiKey:** OBQGEVWZIBSVFW-WOOIZHOCSA-N**Formula:** C29H46O2**SMILES:** CC(=O)OC1CCC2(C)C(=CCC3C2CCC2(C)C(C(C)CCC=C(C)C)CCC32)C1**Mol. weight [g/mol]:** 426.67**CAS:** 2665-04-5

## Physical Properties

Property code	Value	Unit	Source
gf	197.33	kJ/mol	Joback Method
hf	-508.37	kJ/mol	Joback Method
hfus	42.51	kJ/mol	Joback Method
hvap	87.19	kJ/mol	Joback Method
log10ws	-8.53		Crippen Method
logp	7.880		Crippen Method
mcvol	374.870	ml/mol	McGowan Method
pc	956.14	kPa	Joback Method
rinpol	3214.00		NIST Webbook
tb	981.73	K	Joback Method
tc	1214.61	K	Joback Method
tf	557.23	K	Joback Method
vc	1.425	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1405.40	J/molxK	981.73	Joback Method
cpg	1438.29	J/molxK	1020.54	Joback Method
cpg	1471.95	J/molxK	1059.36	Joback Method
cpg	1506.75	J/molxK	1098.17	Joback Method

cpg	1543.05	J/mol×K	1136.98	Joback Method
cpg	1581.24	J/mol×K	1175.80	Joback Method
cpg	1621.68	J/mol×K	1214.61	Joback Method

## Sources

<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=C2665045&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2665045&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>

## 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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