

# 9,19-Cyclolanostan-3-ol, acetate, (3«beta»)-

<b>Other names:</b>	9,19-Cyclo-9«beta»-lanostan-3«beta»-ol, acetate Cycloartanyl acetate 3-O-Acetyl-5a-dihydrocycloartenol Cycloartanol acetate
<b>Inchi:</b>	InChI=1S/C32H54O2/c1-21(2)10-9-11-22(3)24-14-16-30(8)26-13-12-25-28(5,6)27(34-23
<b>InchiKey:</b>	RRIPWSLJXZPRIU-UHFFFAOYSA-N
<b>Formula:</b>	C32H54O2
<b>SMILES:</b>	CC(=O)OC1CCC23CC24CCC2(C)C(C(C)CCCC(C)C)CCC2(C)C4CCC3C1(C)C
<b>Mol. weight [g/mol]:</b>	470.77
<b>CAS:</b>	4575-74-0

## Physical Properties

Property code	Value	Unit	Source
gf	188.92	kJ/mol	Joback Method
hf	-618.81	kJ/mol	Joback Method
hfus	31.55	kJ/mol	Joback Method
hvap	88.30	kJ/mol	Joback Method
log10ws	-9.25		Crippen Method
logp	8.820		Crippen Method
mcvol	414.880	ml/mol	McGowan Method
pc	859.99	kPa	Joback Method
rinpol	3356.00		NIST Webbook
tb	1036.00	K	Joback Method
tc	1275.07	K	Joback Method
tf	674.24	K	Joback Method
vc	1.587	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1695.27	J/molxK	1036.00	Joback Method
cpg	1754.19	J/molxK	1075.85	Joback Method
cpg	1818.64	J/molxK	1115.69	Joback Method
cpg	1889.43	J/molxK	1155.54	Joback Method

cpg	1967.35	J/mol×K	1195.38	Joback Method
cpg	2053.18	J/mol×K	1235.23	Joback Method
cpg	2147.73	J/mol×K	1275.07	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=C4575740&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4575740&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>mvol:</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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