

# Cholest-5-en-3-ol (3«beta»)-, propanoate

<b>Other names:</b>	Cholesteryl propionate Cholesterol n-propionate Cholesterol, propionate Propionyloxy-3«beta» cholestene-5 3«beta»-Propanoyloxycholest-5-ene cholest-5-en-3«beta»-yl propionate
<b>Inchi:</b>	InChI=1S/C30H50O2/c1-7-28(31)32-23-15-17-29(5)22(19-23)11-12-24-26-14-13-25(21(4
<b>InchiKey:</b>	CCORPVHYPHHRKB-YRQGZSEKSA-N
<b>Formula:</b>	C30H50O2
<b>SMILES:</b>	CCC(=O)OC1CCC2(C)C(=CCC3C2CCC2(C)C(C(C)CCCC(C)C)CCC32)C1
<b>Mol. weight [g/mol]:</b>	442.72
<b>CAS:</b>	633-31-8

## Physical Properties

Property code	Value	Unit	Source
gf	131.64	kJ/mol	Joback Method
hf	-641.72	kJ/mol	Joback Method
hfus	42.69	kJ/mol	Joback Method
hvap	88.99	kJ/mol	Joback Method
log10ws	-8.85		Crippen Method
logp	8.350		Crippen Method
mcvol	393.260	ml/mol	McGowan Method
pc	875.84	kPa	Joback Method
tb	1000.13	K	Joback Method
tc	1230.38	K	Joback Method
tf	572.54	K	Joback Method
vc	1.494	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1503.91	J/mol×K	1000.13	Joback Method
cpg	1537.55	J/mol×K	1038.51	Joback Method
cpg	1571.85	J/mol×K	1076.88	Joback Method

cpg	1607.15	J/mol×K	1115.26	Joback Method
cpg	1643.80	J/mol×K	1153.63	Joback Method
cpg	1682.15	J/mol×K	1192.01	Joback Method
cpg	1722.53	J/mol×K	1230.38	Joback Method

## Sources

<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>
<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=C633318&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C633318&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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