

# Cholest-5-ene, 3-(1-oxobuthoxy)-

<b>Other names:</b>	Cholest-5-ene, 3-butanoyloxy- 3-(Butyryloxy)cholest-5-ene Cholest-5-en-3-ol, butanoate Cholesterol butanoate
<b>Inchi:</b>	InChI=1S/C31H52O2/c1-7-9-29(32)33-24-16-18-30(5)23(20-24)12-13-25-27-15-14-26(22)
<b>InchiKey:</b>	CKDZWMVGDHGMFR-UHFFFAOYSA-N
<b>Formula:</b>	C31H52O2
<b>SMILES:</b>	CCCC(=O)OC1CCC2(C)C(=CCC3C2CCC2(C)C(C(C)CCCC(C)C)CCC3)C1
<b>Mol. weight [g/mol]:</b>	456.74
<b>CAS:</b>	137036-79-4

## Physical Properties

Property code	Value	Unit	Source
gf	140.06	kJ/mol	Joback Method
hf	-662.36	kJ/mol	Joback Method
hfus	45.28	kJ/mol	Joback Method
hvap	91.22	kJ/mol	Joback Method
log10ws	-9.27		Crippen Method
logp	8.740		Crippen Method
mcvol	407.350	ml/mol	McGowan Method
pc	828.11	kPa	Joback Method
rinpol	3361.00		NIST Webbook
rinpol	3391.00		NIST Webbook
rinpol	3391.00		NIST Webbook
tb	1023.01	K	Joback Method
tc	1255.41	K	Joback Method
tf	583.81	K	Joback Method
vc	1.550	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1575.99	J/molxK	1023.01	Joback Method
cpg	1611.10	J/molxK	1061.74	Joback Method

cpg	1647.03	J/mol×K	1100.48	Joback Method
cpg	1684.16	J/mol×K	1139.21	Joback Method
cpg	1722.84	J/mol×K	1177.95	Joback Method
cpg	1763.43	J/mol×K	1216.68	Joback Method
cpg	1806.30	J/mol×K	1255.41	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C137036794&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C137036794&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>
<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>hvac:</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

Latest version available from:

<https://www.chemeo.com/cid/45-880-5/Cholest-5-ene-3-1-oxobuthoxy.pdf>

Generated by Cheméo on 2026-05-14 04:11:33.547958207 +0000 UTC m=+2497242.606040439.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.