

# Cholesteryl formate

**Other names:**

5-Cholesten-3«beta»-ol formate  
Cholest-5-en-3-ol (3«beta»)-, formate  
Cholest-5-en-3-yl formate, (3«beta»)-  
cholest-5-en-3«beta»-yl formate

**Inchi:**

InChI=1S/C28H46O2/c1-19(2)7-6-8-20(3)24-11-12-25-23-10-9-21-17-22(30-18-29)13-15

**InchiKey:**

YEYCQJVCAMFWCO-QKDFAWDSSA-N

**Formula:**

C28H46O2

**SMILES:**

CC(C)CCCC(C)C1CCC2C3CC=C4CC(OC=O)CCC4(C)C3CCC12C

**Mol. weight [g/mol]:**

414.66

**CAS:**

4351-55-7

## Physical Properties

Property code	Value	Unit	Source
gf	144.20	kJ/mol	Joback Method
hf	-573.44	kJ/mol	Joback Method
hfus	38.20	kJ/mol	Joback Method
hvap	84.51	kJ/mol	Joback Method
log10ws	-8.02		Crippen Method
logp	7.569		Crippen Method
mcvol	365.080	ml/mol	McGowan Method
pc	991.38	kPa	Joback Method
tb	949.16	K	Joback Method
tc	1175.27	K	Joback Method
tf	542.07	K	Joback Method
vc	1.393	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1360.58	J/molxK	949.16	Joback Method
cpg	1391.52	J/molxK	986.85	Joback Method
cpg	1422.77	J/molxK	1024.53	Joback Method
cpg	1454.67	J/molxK	1062.22	Joback Method
cpg	1487.53	J/molxK	1099.90	Joback Method

cpg	1521.67	J/mol×K	1137.59	Joback Method
cpg	1557.42	J/mol×K	1175.27	Joback Method

## Sources

<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=C4351557&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4351557&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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