

# Cholest-5-ene, 3-methoxy-, (3«beta»)-

<b>Other names:</b>	Cholest-5-ene, 3«beta»-methoxy- Cholesterin methyl ether Cholesterol methyl ether Cholesteryl methyl ether 3«beta»-Methoxycholest-5-ene (3«beta»)-3-Methoxycholest-5-ene Cholest-5-en-3«beta»-yl-methyl ether 3-Methoxycholest-5-ene, (3«beta»)- 3-O-Methylcholesterol NSC 95435
<b>Inchi:</b>	InChI=1S/C28H48O/c1-19(2)8-7-9-20(3)24-12-13-25-23-11-10-21-18-22(29-6)14-16-27(2)
<b>InchiKey:</b>	RCXPTZJNVLDKKV-UHFFFAOYSA-N
<b>Formula:</b>	C28H48O
<b>SMILES:</b>	<chem>COC1CCC2(C)C(=CCC3C2CCC2(C)C(C(C)CCCC(C)C)CCC32)C1</chem>
<b>Mol. weight [g/mol]:</b>	400.68
<b>CAS:</b>	1174-92-1

## Physical Properties

Property code	Value	Unit	Source
chs	-17226.00 ± 5.00	kJ/mol	NIST Webbook
gf	243.72	kJ/mol	Joback Method
hf	-487.86	kJ/mol	Joback Method
hfs	-652.30 ± 5.40	kJ/mol	NIST Webbook
hfus	35.91	kJ/mol	Joback Method
hvap	77.79	kJ/mol	Joback Method
log10ws	-8.24		Crippen Method
logp	8.043		Crippen Method
mcvol	363.510	ml/mol	McGowan Method
pc	946.75	kPa	Joback Method
rinpol	3216.80		NIST Webbook
tb	900.50	K	Joback Method
tc	1122.15	K	Joback Method
tf	500.07	K	Joback Method
vc	1.377	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1328.02	J/mol×K	900.50	Joback Method
cpg	1359.07	J/mol×K	937.44	Joback Method
cpg	1390.03	J/mol×K	974.38	Joback Method
cpg	1421.18	J/mol×K	1011.32	Joback Method
cpg	1452.84	J/mol×K	1048.27	Joback Method
cpg	1485.31	J/mol×K	1085.21	Joback Method
cpg	1518.90	J/mol×K	1122.15	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=C1174921&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1174921&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>hfs:</b>	Solid phase 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

**vc:** Critical Volume

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