

# 5-Cholesten-3«beta»-ol-7-one, methyl ether

<b>Other names:</b>	(3«beta»)-3-Methoxycholest-5-en-7-one
<b>Inchi:</b>	InChI=1S/C28H46O2/c1-18(2)8-7-9-19(3)22-10-11-23-26-24(13-15-28(22,23)5)27(4)14-1
<b>InchiKey:</b>	YLJFYUPNPBFGPI-UHFFFAOYSA-N
<b>Formula:</b>	C28H46O2
<b>SMILES:</b>	<chem>COC1CCC2(C)C(=CC(=O)C3C2CCC2(C)C(C(C)CCCC(C)C)CCC32)C1</chem>
<b>Mol. weight [g/mol]:</b>	414.66

## Physical Properties

Property code	Value	Unit	Source
gf	121.13	kJ/mol	Joback Method
hf	-625.56	kJ/mol	Joback Method
hfus	35.42	kJ/mol	Joback Method
hvap	82.04	kJ/mol	Joback Method
log10ws	-7.52		Crippen Method
logp	7.222		Crippen Method
mcvol	365.080	ml/mol	McGowan Method
pc	967.47	kPa	Joback Method
rinpol	4023.20		NIST Webbook
tb	968.32	K	Joback Method
tc	1200.58	K	Joback Method
tf	568.29	K	Joback Method
vc	1.383	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1384.59	J/mol×K	968.32	Joback Method
cpg	1416.53	J/mol×K	1007.03	Joback Method
cpg	1448.69	J/mol×K	1045.74	Joback Method
cpg	1481.39	J/mol×K	1084.45	Joback Method
cpg	1514.93	J/mol×K	1123.16	Joback Method
cpg	1549.63	J/mol×K	1161.87	Joback Method
cpg	1585.79	J/mol×K	1200.58	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U332985&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U332985&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>hvp:</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>rinp:</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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