

# Cholest-7-en-3-one, (5«alpha»)-

<b>Other names:</b>	5«alpha»-Cholest-7-en-3-one 5«alpha»-Cholest-7-ene-3-one
<b>Inchi:</b>	InChI=1S/C27H44O/c1-18(2)7-6-8-19(3)23-11-12-24-22-10-9-20-17-21(28)13-15-26(20,4
<b>InchiKey:</b>	FLRPNSKUGCVRRB-UHFFFAOYSA-N
<b>Formula:</b>	C27H44O
<b>SMILES:</b>	CC(C)CCCC(C)C1CCC2C3=CCC4CC(=O)CCC4(C)C3CCC21C
<b>Mol. weight [g/mol]:</b>	384.64
<b>CAS:</b>	15459-85-5

## Physical Properties

Property code	Value	Unit	Source
gf	225.42	kJ/mol	Joback Method
hf	-452.36	kJ/mol	Joback Method
hfus	30.57	kJ/mol	Joback Method
hvap	77.71	kJ/mol	Joback Method
log10ws	-7.90		Crippen Method
logp	7.597		Crippen Method
mcvol	345.120	ml/mol	McGowan Method
pc	1061.71	kPa	Joback Method
rinpol	3150.00		NIST Webbook
tb	927.69	K	Joback Method
tc	1161.44	K	Joback Method
tf	539.03	K	Joback Method
vc	1.310	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1275.88	J/mol×K	927.69	Joback Method
cpg	1307.11	J/mol×K	966.65	Joback Method
cpg	1338.52	J/mol×K	1005.61	Joback Method
cpg	1370.45	J/mol×K	1044.56	Joback Method
cpg	1403.26	J/mol×K	1083.52	Joback Method
cpg	1437.28	J/mol×K	1122.48	Joback Method

## Sources

<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=C15459855&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15459855&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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>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

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