

# Chol-4-en-24-oic acid, 3-oxo-, methyl ester

<b>Other names:</b>	3-Oxochol-4-en-24-oic acid methyl ester Methyl chol-4-en-3-one-24-oate
<b>Inchi:</b>	InChI=1S/C25H38O3/c1-16(5-10-23(27)28-4)20-8-9-21-19-7-6-17-15-18(26)11-13-24(17
<b>InchiKey:</b>	WDIPFMUQXPGENA-XPXBWSFBSA-N
<b>Formula:</b>	C25H38O3
<b>SMILES:</b>	<chem>COC(=O)CCC(C)C1CCC2C3CCC4=CC(=O)CCC4(C)C3CCC12C</chem>
<b>Mol. weight [g/mol]:</b>	386.57
<b>CAS:</b>	1452-33-1

## Physical Properties

Property code	Value	Unit	Source
gf	-22.90	kJ/mol	Joback Method
hf	-650.60	kJ/mol	Joback Method
hfus	31.70	kJ/mol	Joback Method
hvap	82.80	kJ/mol	Joback Method
log10ws	-6.17		Crippen Method
logp	5.724		Crippen Method
mcvol	324.380	ml/mol	McGowan Method
pc	1240.71	kPa	Joback Method
rinpol	3233.00		NIST Webbook
rinpol	3233.00		NIST Webbook
tb	958.66	K	Joback Method
tc	1198.08	K	Joback Method
tf	603.65	K	Joback Method
vc	1.228	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1207.16	J/mol×K	958.66	Joback Method
cpg	1236.70	J/mol×K	998.56	Joback Method
cpg	1266.67	J/mol×K	1038.47	Joback Method
cpg	1297.39	J/mol×K	1078.37	Joback Method
cpg	1329.21	J/mol×K	1118.27	Joback Method

cpg	1362.45	J/mol×K	1158.17	Joback Method
cpg	1397.46	J/mol×K	1198.08	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1452331&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1452331&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>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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