

# Methyl 5-«beta»-cholan-3-«alpha»,12-«alpha»-diol-7-one-

Inchi:	InChI=1S/C25H40O5/c1-14(5-8-22(29)30-4)17-6-7-18-23-19(13-21(28)25(17,18)3)24(2)1
InchiKey:	BCPZDSVICYKERMU-OPDDTVDFSA-N
Formula:	C25H40O5
SMILES:	COC(=O)CCC(C)C1CCC2C3C(=O)CC4CC(O)CCC4(C)C3CC(O)C12C
Mol. weight [g/mol]:	420.58

## Physical Properties

Property code	Value	Unit	Source
gf	-340.00	kJ/mol	Joback Method
hf	-1062.39	kJ/mol	Joback Method
hfus	42.26	kJ/mol	Joback Method
hvap	114.28	kJ/mol	Joback Method
log10ws	-4.83		Crippen Method
logp	3.745		Crippen Method
mcvol	340.420	ml/mol	McGowan Method
pc	1298.60	kPa	Joback Method
rinsol	3373.00		NIST Webbook
tb	1124.87	K	Joback Method
tc	1378.07	K	Joback Method
tf	699.29	K	Joback Method
vc	1.278	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1427.29	J/molxK	1124.87	Joback Method
cpg	1462.29	J/molxK	1167.07	Joback Method
cpg	1498.88	J/molxK	1209.27	Joback Method
cpg	1537.43	J/molxK	1251.47	Joback Method
cpg	1578.33	J/molxK	1293.67	Joback Method
cpg	1621.94	J/molxK	1335.87	Joback Method
cpg	1668.65	J/molxK	1378.07	Joback Method

# Sources

<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=R215877&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R215877&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>

# 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>mccol:</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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