

# Sarsasapogenin

<b>Other names:</b>	Spirostan-3-ol, (3«beta»,5«beta»,25S)- 5«beta»-Spirostan-3«beta»-ol, (25S)- Parigenin (25S)-5«beta»-spirostan-3«beta»-ol
<b>Inchi:</b>	InChI=1S/C27H44O3/c1-16-7-12-27(29-15-16)17(2)24-23(30-27)14-22-20-6-5-18-13-19(
<b>InchiKey:</b>	GMBQZIIUCVWOC-DNCYQLCQRSA-N
<b>Formula:</b>	C27H44O3
<b>SMILES:</b>	CC1CCC2(OC1)OC1CC3C4CCC5CC(O)CCC5(C)C4CCC3(C)C1C2C
<b>Mol. weight [g/mol]:</b>	416.64
<b>CAS:</b>	126-19-2

## Physical Properties

Property code	Value	Unit	Source
gf	84.47	kJ/mol	Joback Method
hf	-699.48	kJ/mol	Joback Method
hfus	47.37	kJ/mol	Joback Method
hvap	96.77	kJ/mol	Joback Method
log10ws	-6.59		Crippen Method
logp	5.794		Crippen Method
mcvol	343.740	ml/mol	McGowan Method
pc	1236.35	kPa	Joback Method
tb	1006.27	K	Joback Method
tc	1247.23	K	Joback Method
tf	637.27	K	Joback Method
vc	1.282	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1428.95	J/molxK	1006.27	Joback Method
cpg	1469.35	J/molxK	1046.43	Joback Method
cpg	1512.10	J/molxK	1086.59	Joback Method
cpg	1557.75	J/molxK	1126.75	Joback Method
cpg	1606.85	J/molxK	1166.91	Joback Method

cpg	1659.94	J/mol×K	1207.07	Joback Method
cpg	1717.59	J/mol×K	1247.23	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C126192&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C126192&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>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>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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