

# Androst-5-en-17-one, 3,19-dihydroxy-, (3«beta»)-

Other names:

Androst-5-en-17-one, 3«beta»,19-dihydroxy-  
3,19-Dihydroxyandrost-5-en-17-one-, (3«beta»)-  
Androst-5-en-17-one, 3beta,19-dihydroxy-

Inchi:

InChI=1S/C19H28O3/c1-18-8-7-16-14(15(18)4-5-17(18)22)3-2-12-10-13(21)6-9-19(12,16)

InchiKey:

SGYCSWPEAHDOHE-AUTURXRWSA-N

Formula:

C19H28O3

SMILES:

CC12CCC3C(CC=C4CC(O)CCC43CO)C1CCC2=O

Mol. weight [g/mol]:

304.42

CAS:

2857-45-6

## Physical Properties

Property code	Value	Unit	Source
gf	-110.70	kJ/mol	Joback Method
hf	-581.14	kJ/mol	Joback Method
hfus	25.07	kJ/mol	Joback Method
hvap	94.04	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	2.852		Crippen Method
mcvol	244.140	ml/mol	McGowan Method
pc	2197.95	kPa	Joback Method
tb	929.89	K	Joback Method
tc	1156.59	K	Joback Method
tf	600.51	K	Joback Method
vc	0.912	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	913.62	J/molxK	929.89	Joback Method
cpg	937.00	J/molxK	967.67	Joback Method
cpg	961.03	J/molxK	1005.46	Joback Method
cpg	986.00	J/molxK	1043.24	Joback Method
cpg	1012.20	J/molxK	1081.02	Joback Method
cpg	1039.91	J/molxK	1118.81	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2857456&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2857456&amp;Units=SI</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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