

# Stanolone

## Other names:

(+)-Androstan-17«beta»-ol-3-one  
(+)-Androstan-17Â«betaÂ»-ol-3-one  
(5«alpha»,17«beta»)-17-Hydroxy-androstan-3-one  
(5Â«alphaÂ»,17Â«betaÂ»)-17-Hydroxy-androstan-3-one  
17-«beta»-Hydroxy-5-«alpha»-androstan-3-one  
17-Â«betaÂ»-Hydroxy-5-Â«alphaÂ»-androstan-3-one  
17beta-Hydroxy-5alpha-androstan-3-one  
17«beta»-Hydroxy-3-androstanone  
17Â«betaÂ»-Hydroxy-3-androstanone  
4,5«alpha»-Dihydrotestosterone  
4,5Â«alphaÂ»-Dihydrotestosterone  
4-Dihydrotestosterone  
5-«alpha»-Androstanolone  
5-Â«alphaÂ»-Androstanolone  
5A-Androstan-3-on-17B-ol  
5B-Androstan-3-on-17B-ol  
5«alpha»,17«beta»-Hydroxyandrostan-3-one  
5«alpha»-Androstan-17«beta»-ol-3-one  
5«alpha»-Androstan-3-one, 17«beta»-hydroxy-  
5«alpha»-Dihydrotestosterone  
5Â«alphaÂ»,17Â«betaÂ»-Hydroxyandrostan-3-one  
5Â«alphaÂ»-Androstan-17Â«betaÂ»-ol-3-one  
5Â«alphaÂ»-Androstan-3-one, 17Â«betaÂ»-hydroxy-  
5Â«alphaÂ»-Dihydrotestosterone  
Anaboleen  
Anabolex  
Andractim  
Androlone  
Androstan-17«beta»-ol-3-one  
Androstan-17Â«betaÂ»-ol-3-one  
Androstan-3-one, 17-hydroxy-, (5«alpha»,17«beta»)-  
Androstan-3-one, 17-hydroxy-, (5Â«alphaÂ»,17Â«betaÂ»)-  
Androstanolone  
Cristerona MB  
DHT  
Dihydrotestosterone  
LG 152  
NSC 10972  
Neodrol  
Proteina

Protona  
 Stanaprol  
 Stanorone  
 Testosterone, dihydro-  
**Inchi:** InChI=1S/C19H30O2/c1-18-9-7-13(20)11-12(18)3-4-14-15-5-6-17(21)19(15,2)10-8-16(14)  
**InchiKey:** NVKAWKQGWWIWPM-FLGGQZOGSA-N  
**Formula:** C19H30O2  
**SMILES:** CC12CCC3C(CCC4CC(=O)CCC43C)C1CCC2O  
**Mol. weight [g/mol]:** 290.44  
**CAS:** 521-18-6

## Physical Properties

Property code	Value	Unit	Source
chs	-10550.00 ± 30.00	kJ/mol	NIST Webbook
gf	-1.92	kJ/mol	Joback Method
hf	-495.56	kJ/mol	Joback Method
hfus	21.22	kJ/mol	Joback Method
hvap	76.10	kJ/mol	Joback Method
log10ws	-4.74		Aqueous Solubility Prediction Method
log10ws	-4.74		Estimated Solubility Method
logp	3.959		Crippen Method
mcvol	242.570	ml/mol	McGowan Method
pc	1925.36	kPa	Joback Method
rinpol	2536.00		NIST Webbook
rinpol	2653.30		NIST Webbook
rinpol	2536.00		NIST Webbook
rinpol	2653.30		NIST Webbook
rinpol	2495.00		NIST Webbook
tb	828.90	K	Joback Method
tc	1062.98	K	Joback Method
tf	522.17	K	Joback Method
vc	0.906	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	870.61	J/mol×K	828.90	Joback Method
cpg	895.49	J/mol×K	867.91	Joback Method
cpg	920.14	J/mol×K	906.93	Joback Method
cpg	944.87	J/mol×K	945.94	Joback Method
cpg	969.98	J/mol×K	984.95	Joback Method
cpg	995.80	J/mol×K	1023.97	Joback Method
cpg	1022.62	J/mol×K	1062.98	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C521186&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C521186&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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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>chs:</b>	Standard solid enthalpy of combustion
<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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