Testosterone

Other names:

17-Hydroxy-(17«beta»)-androst-4-en-3-one
17-Hydroxy-(17Â«betaÂ»)-androst-4-en-3-one
17-Hydroxyandrost-4-en-3-one, (17«beta»)-
17-Hydroxyandrost-4-en-3-one, (17Â«betaÂ»)-
17Beta-hydroxyandrost-4-en-3-one
17«beta»-Hydroxy-4-androsten-3-one
17«beta»-Hydroxy-«DELTA»4-androsten-3-one
17«beta»-Hydroxyandrost-4-en-3-one
17«beta»-Testosterone
17Â«betaÂ»-Hydroxy-4-androsten-3-one
17Â«betaÂ»-Hydroxy-Â«DELTAÂ»4-androsten-3-one
17Â«betaÂ»-Hydroxyandrost-4-en-3-one
17Â«betaÂ»-Testosterone
4-Androsten-17«beta»-ol-3-one
4-Androsten-17Â«betaÂ»-ol-3-one
4-Androsten-3-one, 17b-hydroxy-
4-Androsten-3-one-17«beta»-ol
4-Androsten-3-one-17Â«betaÂ»-ol
Andro 100
AndroGel
Androlin
Andronaq
Androst-4-en-17«beta»-ol-3-one
Androst-4-en-17Â«betaÂ»-ol-3-one
Androst-4-en-3-on-17b-ol
Androst-4-en-3-one, 17-hydroxy-, (17«beta»)-
Androst-4-en-3-one, 17-hydroxy-, (17Â«betaÂ»)-
Androst-4-en-3-one, 17«beta»-hydroxy-
Androst-4-en-3-one, 17Â«betaÂ»-hydroxy-
Andrusol
COL 1621
Cristerona T
Cristerone T
Geno-cristaux Gremy
Homosteron
Homosterone
Intrinsa
Malerone
Malogen, aquaspension injection
Mertestate

	Neo-Hombreol F
	Neotestis
	Oreton
	Oreton F
	Orquisteron
	Perandren
	Percutacrine androgenique
	Primotest
	Primoteston
	Relibra
	Striant
	Sustanon
	Sustanone
	Synandrol F
	Teslen
	Testandrone
	Testiculosterone
	Testim
	Testobase
	Testoderm
	Testogel
	Testolin
	Testopropon
	Testosteroid
	Testosteron
	Testoviron
	Testoviron Schering
	Testoviron T
	Testro AQ
	Testrone
	Testryl
	Virormone
	Virosterone
	trans-Testosterone
	«DELTA»4-Androsten-17«beta»-ol-3-one
	Â«DELTAÂ»4-Androsten-17Â«betaÂ»-ol-3-one
Inchi:	InChI=1S/C19H28O2/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:	MUMGGOZAMZWBJJ-JZJKZLICSA-N
Formula:	C19H28O2
SMILES:	CC12CCC(=O)C=C1CCC1C2CCC2(C)C(O)CCC12
Mol. weight [g/mol]:	288.42
CAS:	58-22-0

Physical Properties

Property code	Value	Unit	Source
chs	-11080.00 ± 30.00	kJ/mol	NIST Webbook
gf	26.12	kJ/mol	Joback Method
hf	-428.91	kJ/mol	Joback Method
hfus	20.98	kJ/mol	Joback Method
hvap	77.36	kJ/mol	Joback Method
log10ws	-4.02		Estimated Solubility Method
logp	3.879		Crippen Method
mcvol	238.270	ml/mol	McGowan Method
pc	2019.95	kPa	Joback Method
rinpol	2602.00		NIST Webbook
rinpol	2620.00		NIST Webbook
rinpol	2620.00		NIST Webbook
rinpol	2620.00		NIST Webbook
rinpol	2602.00		NIST Webbook
tb	837.71	K	Joback Method
tc	1074.12	K	Joback Method
tf	429.00 ± 1.00	K	NIST Webbook
vc	0.893	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	839.35	J/mol×K	837.71	Joback Method
cpg	863.19	J/mol×K	877.11	Joback Method
cpg	887.01	J/mol×K	916.51	Joback Method
cpg	911.12	J/mol×K	955.91	Joback Method
cpg	935.84	J/mol×K	995.32	Joback Method
cpg	961.51	J/mol×K	1034.72	Joback Method
cpg	988.44	J/mol×K	1074.12	Joback Method
hfust	28.20	kJ/mol	426.50	NIST Webbook
hfust	29.45	kJ/mol	428.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C58220&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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