17«alpha»-Methyltestosterone

Other names:

17(Alpha)-methyl-delta^4-androsten-17-(beta)-ol-3-one
17-Hydroxy-17-methyl-3-keto-androstene-4
17-Methyltestosteron
17-Methyltestosterone
17-«beta»-Hydroxy-17-methylandrost-4-en-3-one
17-Â«betaÂ»-Hydroxy-17-methylandrost-4-en-3-one
17«alpha»-Methyl-3-oxo-4-androsten-17«beta»-ol
17«alpha»-methyl-«DELTA»4-androsten-17«beta»-ol-3-one
17«beta»-Hydroxy-17«alpha»-methylandrost-4-en-3-one
17Â«alphaÂ»-Methyl-3-oxo-4-androsten-17Â«betaÂ»-ol
17Â«alphaÂ»-methyl-Â«DELTAÂ»4-androsten-17Â«betaÂ»-ol-3-one
17Â«betaÂ»-Hydroxy-17Â«alphaÂ»-methylandrost-4-en-3-one
4-Androstene-17«alpha»-methyl-17«beta»-ol-3-one
4-Androstene-17Â«alphaÂ»-methyl-17Â«betaÂ»-ol-3-one
Android
Andrometh
Androsan
Androst-4-en-3-on-17B-ol, 17A-methyl
Androst-4-en-3-on-17«beta»-ol, 17«alpha»-methyl
Androst-4-en-3-on-17Â«betaÂ»-ol, 17Â«alphaÂ»-methyl
Androst-4-en-3-one, 17-hydroxy-17-methyl-, (17«beta»)-
Androst-4-en-3-one, 17-hydroxy-17-methyl-, (17Â«betaÂ»)-
Androst-4-en-3-one, 17«beta»-hydroxy-17-methyl-
Androst-4-en-3-one, 17Â«betaÂ»-hydroxy-17-methyl-
Androst-4-ene-17«alpha»-methyl-17«beta»-ol-3-one
Androst-4-ene-17Â«alphaÂ»-methyl-17Â«betaÂ»-ol-3-one
Androsten
Anertan
Anertan, tablets
CDB 110
Dumogran
Glosso-Sterandryl
Homandren
Hormale
M.T.Mucorettes
Malestrone
Malogen
Masenone
Mastestona
Mesterone

Metandren
Metestone
Methyltestosterone
Metrone
NSC-9701
Nabolin
Neo-Hombreol-M
Neo-Homobreol (M)
Nu-man
Oraviron
Orchisterone-M
Oreton Methyl
Oreton-M
Perandren
RU 24400
Steronyl
Synandrets
Synandrotabs
Syndren
Testhormone
Testora
Testosterone, 17-methyl-
Testoviron
Testovis Depot
Testred
U 2842

Inchi: InChI=1S/C20H30O2/c1-18-9-6-14(21)12-13(18)4-5-15-16(18)7-10-19(2)17(15)8-11-20(1

InchiKey: GCKMFJBGXUYNAG-NSDIEPNESA-N

Formula: C20H30O2

SMILES: CC12CCC(=O)C=C1CCC1C2CCC2(C)C1CCC2(C)O

Mol. weight [g/mol]: 302.45

CAS: 58-18-4

Physical Properties

Property code	Value	Unit	Source
gf	29.05	kJ/mol	Joback Method
hf	-434.31	kJ/mol	Joback Method
hfus	17.28	kJ/mol	Joback Method
hvap	78.43	kJ/mol	Joback Method

log10ws	-3.98		Aqueous Solubility Prediction Method
logp	4.269		Crippen Method
mcvol	252.360	ml/mol	McGowan Method
pc	1930.44	kPa	Joback Method
rinpol	2650.00		NIST Webbook
rinpol	2691.00		NIST Webbook
rinpol	2643.00		NIST Webbook
tb	860.83	K	Joback Method
tc	1100.51	K	Joback Method
tf	437.34	K	Thermodynamic study of solvent-free reaction between 17-methyltestosterone and o-aminophenol
vc	0.948	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	898.24	J/mol×K	860.83	Joback Method
cpg	925.32	J/mol×K	900.78	Joback Method
cpg	953.37	J/mol×K	940.72	Joback Method
cpg	982.85	J/mol×K	980.67	Joback Method
cpg	1014.21	J/mol×K	1020.62	Joback Method
cpg	1047.90	J/mol×K	1060.56	Joback Method
cpg	1084.38	J/mol×K	1100.51	Joback Method
hfust	27.80	kJ/mol	439.00	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Thermodynamic study of solvent-free reaction between 17-methyltestosterone and o-aminophenol: https://www.doi.org/10.1016/j.jct.2011.02.003

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C58184&Units=SI

Legend

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