Testosterone acetate

Other names:	17«beta»-Acetoxy-4-androsten-3-one
	17«beta»-Acetoxy-«DELTA»4-androstan-3-one
	17«beta»-Hydroxyandrost-4-en-3-one acetate
	17Â«betaÂ»-Acetoxy-4-androsten-3-one
	17Â«betaÂ»-Acetoxy-Â«DELTAÂ»4-androstan-3-one
	17Â«betaÂ»-Hydroxyandrost-4-en-3-one acetate
	3-Oxoandrost-4-en-17«beta»-yl acetate
	3-Oxoandrost-4-en-17Â«betaÂ»-yl acetate
	Aceto-sterandryl
	Aceto-testoviron
	Amolisin
	Androst-4-en-17«beta»-ol-3-one acetate
	Androst-4-en-17Â«betaÂ»-ol-3-one acetate
	Androst-4-en-3-one, 17-(acetyloxy)-, (17«beta»)-
	Androst-4-en-3-one, 17-(acetyloxy)-, (17Â«betaÂ»)-
	Androtest A
	Deposteron
	Farmatest
	NSC 523836
	Perandrone A
	SKF 5647
	Testosterone 17-acetate
Inchi:	InChI=1S/C21H30O3/c1-13(22)24-19-7-6-17-16-5-4-14-12-15(23)8-10-20(14,2)18(16)9-1
InchiKey:	DJPZSBANTAQNFN-MTIYKSONSA-N
Formula:	C21H30O3
SMILES:	CC(=O)OC1CCC2C3CCC4=CC(=O)CCC4(C)C3CCC12C
Mol. weight [g/mol]:	330.46
CAS:	1045-69-8

Physical Properties

Property code	Value	Unit	Source
gf	-54.14	kJ/mol	Joback Method
hf	-562.76	kJ/mol	Joback Method
hfus	24.86	kJ/mol	Joback Method
hvap	74.29	kJ/mol	Joback Method
log10ws	-5.18		Aqueous Solubility Prediction Method

log10ws	-5.18		Estimated Solubility Method
logp	4.450		Crippen Method
mcvol	268.020	ml/mol	McGowan Method
pc	1648.43	kPa	Joback Method
tb	867.58	K	Joback Method
tc	1115.31	K	Joback Method
tf	573.57	K	Joback Method
vc	1.010	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	945.49	J/mol×K	867.58	Joback Method
cpg	971.99	J/mol×K	908.87	Joback Method
cpg	998.46	J/mol×K	950.16	Joback Method
cpg	1025.25	J/mol×K	991.45	Joback Method
cpg	1052.70	J/mol×K	1032.74	Joback Method
cpg	1081.18	J/mol×K	1074.03	Joback Method
cpg	1111.01	J/mol×K	1115.31	Joback Method
hfust	27.88	kJ/mol	413.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1045698&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method: https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume