

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	m ³ /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/ci9903071>

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
hvac:	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

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