Testosterone cypionate

Other names:	Androst-4-en-3-one, 17-(3-cyclopentyl-1-oxopropoxy)-, (17«beta»)-
	Andro-Cyp
	Dep-Test
	Depo-testosterone
	Depo-Testosterone cypionate
	Depovirin
	Durandro
	Jectatest
	Malogen CYP
	Pertestis
	T-Ionate-P.A
	Testodrin prolongatum
	Testosterone cyclopentanepropionate
	Testosterone cyclopentylpropionate
	Testosterone 17«beta»-cyclopentanepropionate
	Testosterone 17«beta»-cyclopentylpropionate
	Testosterone 17«beta»-cypionate
	depAndro 100
	depAndro 200
	17-(Cyclopentyl-1-oxopropoxy)androst-4-en-3-one, (17«beta»)-
	Depo
	Depotest
	Virilon
	17«beta»-Hydroxyandrost-4-en-3-one cyclopentylpropionate
	NSC 9157
Inchi:	InChI=1S/C27H40O3/c1-26-15-13-20(28)17-19(26)8-9-21-22-10-11-24(27(22,2)16-14-23
InchiKey:	HPFVBGJFAYZEBE-KAOZTRPUSA-N
Formula:	C27H40O3
SMILES:	CC12CCC(=O)C=C1CCC1C2CCC2(C)C(OC(=O)CCC3CCCC3)CCC12
Mol. weight [g/mol]:	412.60
CAS:	58-20-8

Physical Properties

Property code	Value	Unit	Source
gf	32.93	kJ/mol	Joback Method
hf	-626.12	kJ/mol	Joback Method

hfus	34.34	kJ/mol	Joback Method
hvap	87.90	kJ/mol	Joback Method
log10ws	-7.26		Crippen Method
logp	6.401		Crippen Method
mcvol	341.700	ml/mol	McGowan Method
pc	1223.41	kPa	Joback Method
tb	1020.14	K	Joback Method
tc	1271.89	K	Joback Method
tf	373.00 ± 1.00	K	NIST Webbook
vc	1.288	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1339.58	J/mol×K	1020.14	Joback Method
cpg	1373.10	J/mol×K	1062.10	Joback Method
cpg	1407.57	J/mol×K	1104.06	Joback Method
cpg	1443.41	J/mol×K	1146.01	Joback Method
cpg	1481.04	J/mol×K	1187.97	Joback Method
cpg	1520.87	J/mol×K	1229.93	Joback Method
cpg	1563.32	J/mol×K	1271.89	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C58208&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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

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