Estradiol Cypionate

Other names:	Estra-1,3,5(10)-triene-3,17-diol (17«beta»)-, 17-cyclopentanepropanoate
	Cyclopentanepropionic acid, 17-ester with estradiol
	Dep-Estro
	Depo-estradiol cyclopentylpropionate
	Depo-Estradiol
	Depoestra
	Depofemin
	E. Ionate P.A.
	Estradep
	Estradiol cyclopentylpropionate
	Estradiol 17«beta»-cyclopentanepropionate
	Estradiol 17«beta»-cyclopentylpropionate
	Estradiol 17«beta»-cypionate
	Estradiol 17-cyclopentylpropionate
	Estradiol 17-cypionate
	Estradiol, 17-cyclopentanepropionate
	Estrapo
	Estro-Depo
	ECP
	Femogen CYP
	17«beta»-Estradiol cyclopentanepropionate
	17«beta»-Estradiol cyclopentylpropionate
	17«beta»-Estradiol cypionate
	17«beta»-Estradiol 17-cyclopentylpropionate
	Depoestradiol cypionate
	depGynogen
	(17«beta»)-Estra-1,3,5(10)-triene-3,17-diol 17«beta»-cyclopentanepropanoate
	17«beta»-[(3-Cyclopentylpropanoyl)oxy]estra-1,3,5(10)-trien-3-ol
	Cyclopentanepropionic acid, 3-hydroxyestra-1,3,5(10)-trien-17«beta»-yl ester
	NSC 3354
	estra-1,3,5(10)-triene-3,17«beta»-diol 17-(cyclopentanepropionate)
Inchi:	InChI=1S/C26H36O3/c1-26-15-14-21-20-10-8-19(27)16-18(20)7-9-22(21)23(26)11-12-24
InchiKey:	UOACKFBJUYNSLK-UHFFFAOYSA-N
Formula:	C26H36O3
SMILES:	CC12CCC3c4ccc(O)cc4CCC3C1CCC2OC(=O)CCC1CCCC1
Mol. weight [g/mol]:	396.56
CAS:	313-06-4

Physical Properties

Property code	Value	Unit	Source
gf	55.97	kJ/mol	Joback Method
hf	-535.90	kJ/mol	Joback Method
hfus	45.30	kJ/mol	Joback Method
hvap	97.15	kJ/mol	Joback Method
log10ws	-6.87		Crippen Method
logp	6.130		Crippen Method
mcvol	323.310	ml/mol	McGowan Method
pc	1474.75	kPa	Joback Method
tb	1017.79	K	Joback Method
tc	1268.08	K	Joback Method
tf	427.00 ± 1.00	K	NIST Webbook
vc	1.165	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1227.69	J/mol×K	1017.79	Joback Method
cpg	1255.93	J/mol×K	1059.51	Joback Method
cpg	1284.95	J/mol×K	1101.22	Joback Method
cpg	1315.13	J/mol×K	1142.94	Joback Method
cpg	1346.85	J/mol×K	1184.65	Joback Method
cpg	1380.50	J/mol×K	1226.37	Joback Method
cpg	1416.47	J/mol×K	1268.08	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C313064&Units=SI

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

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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

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

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

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