

Estradiol Valerate

Other names: Estra-1,3,5(10)-triene-3,17-diol (17«beta»)-, 17-pentanoate
component of Deladumone
component of Deluteval 2X
component of Ditate
component of Mal-O-Fem L.A
Atladiol
Deladiol
Delahormone unimatic
Delestrogen
Delestrogen 4x
Depo estro med
Dura-Estradiol
Duratrad
Estate
Estradiol valerianate
Estradiol 17«beta»-valerate
Estradiol 17-valerate
Estraval
Estraval PA
Estraval 2X
Estroval-10
Exten strone
Femogen-L.A.
Femogex
Neofollin
Pharlon
Progynon-Depot
Progynova
Repo-Estra
Oestradiol valerate
Progynon
Androgyn L.A.
Gynogen L.A.10
Gynogen L.A. 20
Gynogen L.A. 40
(17«beta»)-Estra-1,3,5(10)-triene-3,17-diol 17-valerate
Climaval
Cyclacur
Deladumone
Gynogen LA

NSC-17590

Pelanin depot

Primofol

Valergen

(17«beta»)-estra-1,3,5(10)-triene-3,17-diol pentanoate

Inchi:

InChI=1S/C23H32O3/c1-3-4-5-22(25)26-21-11-10-20-19-8-6-15-14-16(24)7-9-17(15)18(

InchiKey:

RSEPBGGWRJCQGY-IUHILOBXSA-N

Formula:

C23H32O3

SMILES:

CCCCC(=O)OC1CCC2C3CCc4cc(O)ccc4C3CCC12C

Mol. weight [g/mol]:

356.50

CAS:

979-32-8

Physical Properties

Property code	Value	Unit	Source
gf	-5.84	kJ/mol	Joback Method
hf	-534.46	kJ/mol	Joback Method
hfus	43.60	kJ/mol	Joback Method
hvap	90.21	kJ/mol	Joback Method
log10ws	-5.96		Crippen Method
logp	5.350		Crippen Method
mvol	291.900	ml/mol	McGowan Method
pc	1605.13	kPa	Joback Method
tb	933.87	K	Joback Method
tc	1170.73	K	Joback Method
tf	422.00 ± 1.00	K	NIST Webbook
vc	1.056	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1037.91	J/mol×K	933.87	Joback Method
cpg	1061.62	J/mol×K	973.35	Joback Method
cpg	1085.52	J/mol×K	1012.82	Joback Method
cpg	1109.92	J/mol×K	1052.30	Joback Method
cpg	1135.11	J/mol×K	1091.78	Joback Method
cpg	1161.40	J/mol×K	1131.26	Joback Method
cpg	1189.09	J/mol×K	1170.73	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=C979328&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

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