Hydroxyprogesterone Caproate

Other names:

Pregn-4-ene-3,20-dione, 17-[(1-oxohexyl)oxy]-
Delalutin
Depo-proluton
Estralutin
Hormofort
Hydroxyprogesterone hexanoate
Hyproval
HPC
Kaprogest
Lutate
Neolutin forte
Pregn-4-ene-3,20-dione, 17-hydroxy-, hexanoate
Primolut Depot
Proge
Progesterone caproate
Progesterone, 17-hydroxy-, hexanoate
Proluton depot
Relutin
Syngynon
17«alpha»-Hydroxyprogesterone caproate
17«alpha»-Hydroxyprogesterone hexanoate
17«alpha»-Hydroxyprogesterone n-caproate
Corlutin L.A.
Duraluton
17-«alpha»-Hexanoyloxypregn-4-ene-3,20-dione
17«alpha»-Hydroxypregn-4-ene-3,20-dione hexanoate
Hylutin
Hyproval-pa
Hyroxon
Idrogestene
Luteocrin
Luteocrin depot
Lutopron
Neolutin
NSC-17592
17-((1-Oxohexyl)oxy)pregn-4-ene-3,20-dione
Progesterone retard pharlon
Teralutil
Gesterol LA 250
17-Hydroxypregn-4-ene-3,20-dione caproate

	Hyproval P.A.
	Lewntogest
	Pharlon
	3,20-Dioxopregn-4-en-17«alpha»-yl caproate
	Hexanoic acid, ester with 17-hydroxypregn-4-ene-3,20-dione
	17«alpha»-Hydroxypregn-4-ene-3,20-dione caproate
	Isoquinolinedione, 1,3(2h,4h)-, 2-hydroxy, acetate ester
Inchi:	InChI=1S/C27H40O4/c1-5-6-7-8-24(30)31-27(18(2)28)16-13-23-21-10-9-19-17-20(29)11
InchiKey:	DOMWKUIIPQCAJU-UQSTXUIISA-N
Formula:	C27H40O4
SMILES:	CCCCCC(=O)OC1(C(C)=O)CCC2C3CCC4=CC(=O)CCC4(C)C3CCC21C
Mol. weight [g/mol]:	428.60
CAS:	630-56-8

Physical Properties

Property code	Value	Unit	Source
gf	-138.03	kJ/mol	Joback Method
hf	-783.94	kJ/mol	Joback Method
hfus	35.70	kJ/mol	Joback Method
hvap	93.24	kJ/mol	Joback Method
log10ws	-6.88		Crippen Method
logp	5.970		Crippen Method
mcvol	354.130	ml/mol	McGowan Method
pc	1164.04	kPa	Joback Method
tb	1058.97	K	Joback Method
tc	1306.11	K	Joback Method
tf	715.02	K	Joback Method
vc	1.351	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1391.28	J/mol×K	1058.97	Joback Method
cpg	1432.03	J/mol×K	1100.16	Joback Method
cpg	1475.54	J/mol×K	1141.35	Joback Method
cpg	1522.32	J/mol×K	1182.54	Joback Method
cpg	1572.86	J/mol×K	1223.73	Joback Method

cpg	1627.66	J/mol×K	1264.92	Joback Method
cpg	1687.22	J/mol×K	1306.11	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C630568&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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