Medroxyprogesterone acetate

Other names:

(6«alpha»)-17-(Acetyloxy)-6-methylpreg-4-ene-3,20-dione
(6«alpha»-Pregn-4-ene-3,20-dione, 17-(acetyloxy)-6-methyl-
17-Acetoxy-6«alpha»-methylprogesterone
17-Hydroxy-6-«alpha»-methylpregn-4-ene-3,20-dione acetate
17-Hydroxy-6«alpha»-methylpregn-4-en-3,20-dione acetate
17.alpha.-acetoxy-6.alpha.-methylprogesterone
17.alpha.-hydroxy-6.alpha.-methylprogesterone acetate
17«alpha»-Acetoxy-6-«alpha»-methylpregn-4-ene-3,20-dione
17«alpha»-Acetoxy-6«alpha»-Methylprogesterone
17«alpha»-Hydroxy-6«alpha»-methyl-4-pregnene-3,20-dione 17-acetate
17«alpha»-Hydroxy-6«alpha»-methylpregn-4-ene-3,20-dione acetate
17«alpha»-Hydroxy-6«alpha»-methylprogesterone acetate
6-Methyl-3,20-dioxopregn-4-en-17-yl acetate, (6«alpha»)-
6.alpha.-methyl-17.alpha.-hydroxyprogesterone acetate
6«alpha»-Methyl-17-acetoxyprogesterone
6«alpha»-Methyl-17R-hydroxyprogesterone acetate
6«alpha»-Methyl-17«alpha»-acetoxy-«DELTA»4-pregnene-3,20-dione
6«alpha»-Methyl-17«alpha»-acetoxypregn-4-ene-3,20-dione
6«alpha»-Methyl-17«alpha»-acetoxyprogesterone
6«alpha»-Methyl-17«alpha»-hydroxyprogesterone acetate
6«alpha»-Methyl-4-pregnene-3,20-dion-17«alpha»-ol acetate
Amen
Aragest
Asconale
Clinovir
Colirest
Curretab
Cycrin
DMPA
DP150
Depcorlutin
Depo-Promone
Depo-Provera
Depo-Ralovera
Depo-clinovir
Depo-mpa
Depomedroxyprogesterone acetate
Deporone
Depot-medroxyprogesterone acetate
Farlutal

Farlutin
G-Farlutal
Gestapuran
Hematrol
Hysron
Lutopolar
Lutoral
MAP
MPA
Medroprogesterone acetate
Medroxyacetate progesterone
Medroxyprogesterone 17-acetate
Metigestrona
Metipregnone
NSC-26386
Nadigest
Nidaxin
Oragest
Perlutex
Pregn-4-ene-3,20-dione, 17-(acetyloxy)-6-methyl-, (6«alpha»)-
Pregn-4-ene-3,20-dione, 17-hydroxy-6«alpha»-methyl-, acetate
Prodasone
Progestalfa
Progesterone, 17-hydroxy-6«alpha»-methyl-, acetate
Progesterone, 17«alpha»-hydroxy-6«alpha»-methyl-, acetate
Progeston
Progevera
Promone-E
Provera
Provera dosepak
Proverone
Ralovera
Repromix
Sirprogen
Sodelut G
SuppRestral
U 8839
Veramix
pregn-4-ene-3,20-dione, 17-(acetyloxy)-6-methyl-, (6.alpha.)-
pregn-4-ene-3,20-dione, 17-hydroxy-6.alpha.-methyl-, acetate

Inchi: InChI=1S/C24H34O4/c1-14-12-18-19(22(4)9-6-17(27)13-21(14)22)7-10-23(5)20(18)8-11

InchiKey: PSGAAPLEWMOORI-MRIZVWMHSA-N

Formula: C24H34O4

SMILES: CC(=O)OC1(C(C)=O)CCC2C3CC(C)C4=CC(=O)CCC4(C)C3CCC21C
Mol. weight [g/mol]: 386.52
CAS: 71-58-9

Physical Properties

Property code	Value	Unit	Source
gf	-171.00	kJ/mol	Joback Method
hf	-742.36	kJ/mol	Joback Method
hfus	29.00	kJ/mol	Joback Method
hvap	86.25	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	4.655		Crippen Method
mcvol	311.860	ml/mol	McGowan Method
pc	1396.46	kPa	Joback Method
rinpol	2947.00		NIST Webbook
tb	985.66	K	Joback Method
tc	1235.06	K	Joback Method
tf	676.97	K	Joback Method
vc	1.181	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1176.88	J/mol×K	985.66	Joback Method
cpg	1211.56	J/mol×K	1027.23	Joback Method
cpg	1248.23	J/mol×K	1068.79	Joback Method
cpg	1287.38	J/mol×K	1110.36	Joback Method
cpg	1329.49	J/mol×K	1151.93	Joback Method
cpg	1375.04	J/mol×K	1193.50	Joback Method
cpg	1424.53	J/mol×K	1235.06	Joback Method

Sources

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

Phase behavior of carbon dioxide + medroxyprogesterone acetate system at high pressures:	https://www.doi.org/10.1016/j.fluid.2013.03.019
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=C71589&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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