

# Megestrol acetate

## Other names:

17-(acetyloxy)-6-methylpregna-4,6-diene-3,20-dione  
17-Acetoxy-6-methylpregna-4,6-diene-3,20-dione  
17-Hydroxy-6-methylpregna-4,6-diene-3,20-dione acetate  
17-hydroxy-6-methylpregna-4,6-diene-3,20-dione 17-acetate  
17«alpha»-Acetoxy-6-dehydro-6-methylprogesterone  
17«alpha»-Acetoxy-6-methyl-4,6-pregnadiene-3,20-dione  
17«alpha»-Acetoxy-6-methylpregna-4,6-diene-3,20-dione  
17Â«alphaÂ»-Acetoxy-6-dehydro-6-methylprogesterone  
17Â«alphaÂ»-Acetoxy-6-methyl-4,6-pregnadiene-3,20-dione  
17Â«alphaÂ»-Acetoxy-6-methylpregna-4,6-diene-3,20-dione  
5071  
6-Dehydro-6-methyl-17«alpha»-acetoxyprogesterone  
6-Dehydro-6-methyl-17Â«alphaÂ»-acetoxyprogesterone  
6-Methyl-17-«alpha»-acetoxypregna-4,6-diene-3,20-dione  
6-Methyl-17-Â«alphaÂ»-acetoxypregna-4,6-diene-3,20-dione  
6-Methyl-17«alpha»-hydroxy-«DELTA»6-progesterone acetate  
6-Methyl-17Â«alphaÂ»-hydroxy-Â«DELTAÂ»6-progesterone acetate  
6-Methyl-6-dehydro-17«alpha»-acetoxyprogesterone  
6-Methyl-6-dehydro-17«alpha»-acetylprogesterone  
6-Methyl-6-dehydro-17Â«alphaÂ»-acetoxyprogesterone  
6-Methyl-6-dehydro-17Â«alphaÂ»-acetylprogesterone  
6-Methyl-«DELTA»4,6-pregnadien-17-«alpha»-ol-3,20-dione acetate  
6-Methyl-Â«DELTAÂ»4,6-pregnadien-17-Â«alphaÂ»-ol-3,20-dione acetate  
BDH 1298  
DMAP  
Magestin  
Maygace  
Megace  
Megeron  
Megestat  
Megestil  
Megestryl acetate  
NSC-71423  
Nia  
Niagestin  
Ovaban  
Ovarid  
Pregna-4,6-diene-3,20-dione, 17-(acetyloxy)-6-methyl-  
Pregna-4,6-diene-3,20-dione, 17-hydroxy-6-methyl-, acetate  
Progesterone, 6-dehydro-17«alpha»-hydroxy-6-methyl-, acetate

Progesterone, 6-dehydro-17 $\alpha$ -hydroxy-6-methyl-, acetate

SC 10363

**Inchi:** InChI=1S/C24H32O4/c1-14-12-18-19(22(4)9-6-17(27)13-21(14)22)7-10-23(5)20(18)8-11

**InchiKey:** RQZAXGRLVPAYTJ-UHFFFAOYSA-N

**Formula:** C24H32O4

**SMILES:** CC(=O)OC1(C(C)=O)CCC2C3C=C(C)C4=CC(=O)CCC4(C)C3CCC21C

**Mol. weight [g/mol]:** 384.51

**CAS:** 595-33-5

## Physical Properties

Property code	Value	Unit	Source
gf	-142.96	kJ/mol	Joback Method
hf	-675.71	kJ/mol	Joback Method
hfus	28.77	kJ/mol	Joback Method
hvap	87.52	kJ/mol	Joback Method
log10ws	-5.35		Aqueous Solubility Prediction Method
log10ws	-5.35		Estimated Solubility Method
logp	4.575		Crippen Method
mcvol	307.560	ml/mol	McGowan Method
pc	1454.57	kPa	Joback Method
rinpol	2909.00		NIST Webbook
rinpol	2909.00		NIST Webbook
tb	994.47	K	Joback Method
tc	1245.97	K	Joback Method
tf	694.49	K	Joback Method
vc	1.169	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1143.19	J/molxK	994.47	Joback Method
cpg	1177.87	J/molxK	1036.39	Joback Method
cpg	1214.85	J/molxK	1078.30	Joback Method
cpg	1254.63	J/molxK	1120.22	Joback Method
cpg	1297.72	J/molxK	1162.14	Joback Method

cpg	1344.61	J/mol×K	1204.06	Joback Method
cpg	1395.81	J/mol×K	1245.97	Joback Method

## Sources

<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C595335&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C595335&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Solubility of megestrol acetate and levonorgestrel in supercritical carbon dioxide</b>	<a href="https://www.doi.org/10.1016/j.tca.2013.07.018">https://www.doi.org/10.1016/j.tca.2013.07.018</a>
<b>Solubility of Bicalutamide, Megestrol Acetate, Prednisolone, Beclomethasone Dipropionate, and Clarithromycin in Subcritical Water at Different Temperatures from 383.15 to 443.15 K:</b>	<a href="https://www.doi.org/10.1021/acs.jced.6b00997">https://www.doi.org/10.1021/acs.jced.6b00997</a>
	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpolar:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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