

# Norethindrone Acetate

## Other names:

(17-«alpha»)-17-(Acetyloxy)-19-norpregn-4-en-20-yn-3-one  
(17-Â«alphaÂ»)-17-(Acetyloxy)-19-norpregn-4-en-20-yn-3-one  
17-Acetoxy-19-nor-17«alpha»-pregn-4-en-20-yn-3-one  
17-Acetoxy-19-nor-17Â«alphaÂ»-pregn-4-en-20-yn-3-one  
17-Acetyloxy(17«alpha»)-19-norpregn-4-estren-17«beta»-ol-acetate-3-one  
17-Acetyloxy(17Â«alphaÂ»)-19-norpregn-4-estren-17Â«betaÂ»-ol-acetate-3-one  
17-Hydroxy-19-nor-17«alpha»-pregn-4-en-20-yn-3-one acetate  
17-Hydroxy-19-nor-17Â«alphaÂ»-pregn-4-en-20-yn-3-one acetate  
17«alpha»-Ethinyl-19-nortestosterone 17«beta»-acetate  
17«alpha»-Ethinyl-19-nortestosterone acetate  
17«alpha»-Ethinyl-17«beta»-hydroxyestr-4-en-3-one acetate  
17«alpha»-Ethinyl-19-nortestosterone acetate  
17«alpha»-Ethinyl-3-oxoestr-4-en-17«beta»-yl acetate  
17«beta»-Acetoxy-19-nor-17«alpha»-pregn-4-en-20-yn-3-one  
17«beta»-Hydroxy-19-nor-17«alpha»-pregn-4-en-20-yn-3-one acetate  
17Â«alphaÂ»-Ethinyl-19-nortestosterone 17Â«betaÂ»-acetate  
17Â«alphaÂ»-Ethinyl-19-nortestosterone acetate  
17Â«alphaÂ»-Ethinyl-17Â«betaÂ»-hydroxyestr-4-en-3-one acetate  
17Â«alphaÂ»-Ethinyl-19-nortestosterone acetate  
17Â«alphaÂ»-Ethinyl-3-oxoestr-4-en-17Â«betaÂ»-yl acetate  
17Â«betaÂ»-Acetoxy-19-nor-17Â«alphaÂ»-pregn-4-en-20-yn-3-one  
17Â«betaÂ»-Hydroxy-19-nor-17Â«alphaÂ»-pregn-4-en-20-yn-3-one acetate  
19-Nor-17«alpha»-pregn-4-en-20-yn-3-one, 17-hydroxy-, acetate  
19-Nor-17Â«alphaÂ»-pregn-4-en-20-yn-3-one, 17-hydroxy-, acetate  
19-Norethisterone acetate  
19-Norethynyltestosterone acetate  
19-Norpregn-4-en-20-yn-3-one, 17-(acetyloxy)-, (17«alpha»)-  
19-Norpregn-4-en-20-yn-3-one, 17-(acetyloxy)-, (17Â«alphaÂ»)-  
19-nor-17«alpha»-Pregn-4-en-20-yn-3-one, 17-acetoxy-  
19-nor-17Â«alphaÂ»-Pregn-4-en-20-yn-3-one, 17-acetoxy-  
Aygestin  
ENTA  
Estr-4-en-3-one, 17«alpha»-ethinyl-17-hydroxy-, acetate  
Estr-4-en-3-one, 17Â«alphaÂ»-ethinyl-17-hydroxy-, acetate  
Milli-Anovlar  
Milligynon  
Miniphase  
NSC 22844  
Norethindrone 17-acetate  
Norethisteron acetate

Norethisterone acetate  
 Norethynyltestosterone acetate  
 Norethisterone acetate  
 Norlutate  
 Norlutin acetate  
 Norlutin-A  
 Norlutine acetate  
 Orlutate  
 Primolut-Nor  
 Progylut  
 SH 420  
 SH-420C  
 Testosterone, 19-nor-17alpha-ethynyl-, acetate

**Inchi:** InChI=1S/C22H28O3/c1-4-22(25-14(2)23)12-10-20-19-7-5-15-13-16(24)6-8-17(15)18(19)  
**InchiKey:** IMONTRJLAWHYGT-FTMCFMMZSA-N  
**Formula:** C22H28O2  
**SMILES:** C#CC1(OC(C)=O)CCC2C3CCC4=CC(=O)CCC4C3CCC21C  
**Mol. weight [g/mol]:** 324.46  
**CAS:** 51-98-9

## Physical Properties

Property code	Value	Unit	Source
gf	177.35	kJ/mol	Joback Method
hf	-291.50	kJ/mol	Joback Method
hfus	30.43	kJ/mol	Joback Method
hvap	76.37	kJ/mol	Joback Method
log10ws	-4.80		Estimated Solubility Method
log10ws	-4.79		Aqueous Solubility Prediction Method
logp	4.063		Crippen Method
mvol	273.510	ml/mol	McGowan Method
pc	1720.31	kPa	Joback Method
tb	880.58	K	Joback Method
tc	1137.58	K	Joback Method
tf	434.65	K	Aqueous Solubility Prediction Method
vc	1.028	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	949.34	J/molxK	880.58	Joback Method
cpg	976.10	J/molxK	923.41	Joback Method
cpg	1003.09	J/molxK	966.25	Joback Method
cpg	1030.71	J/molxK	1009.08	Joback Method
cpg	1059.35	J/molxK	1051.91	Joback Method
cpg	1089.43	J/molxK	1094.75	Joback Method
cpg	1121.35	J/molxK	1137.58	Joback Method

## Sources

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**Estimated Solubility Method:** [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)

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

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C51989&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## 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>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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