

Hydrocortisone Acetate

Other names:

- 11,17-Dihydroxy-3,20-dioxopregn-4-en-21-yl acetate, (11«beta»)-
- 11,17-Dihydroxy-3,20-dioxopregn-4-en-21-yl acetate, (11Â«betaÂ»)-
- 11«beta»,17«alpha»,21-Trihydroxypregn-4-ene-3,20-dione 21-acetate
- 11«beta»,17«alpha»-Dihydroxy-21-acetoxypregesterone
- 11Â«betaÂ»,17Â«alphaÂ»,21-Trihydroxypregn-4-ene-3,20-dione 21-acetate
- 11Â«betaÂ»,17Â«alphaÂ»-Dihydroxy-21-acetoxypregesterone
- 17-Hydroxycorticosterone acetate
- 17-Hydroxycorticosterone-21-acetate
- 17«alpha»-Hydrocorticosterone-21-acetate
- 17«alpha»-Hydroxycorticosterone acetate
- 17Â«alphaÂ»-Hydrocorticosterone-21-acetate
- 17Â«alphaÂ»-Hydroxycorticosterone acetate
- 21-Acetoxy-11«beta»,17-dihydroxypregn-4-en-3,20-dione
- 21-Acetoxy-11«beta»,17-dihydroxypregn-4-ene-3,20-dione
- 21-Acetoxy-11«beta»,17«alpha»-dihydroxypregn-4-ene-3,20-dione
- 21-Acetoxy-11Â«betaÂ»,17-dihydroxypregn-4-en-3,20-dione
- 21-Acetoxy-11Â«betaÂ»,17-dihydroxypregn-4-ene-3,20-dione
- 21-Acetoxy-11Â«betaÂ»,17Â«alphaÂ»-dihydroxypregn-4-ene-3,20-dione
- Abbocort
- Acetate-AS
- Aceto-Cort
- Anusol-HC
- Bambicort
- Berlison F
- Biocortar
- CaldeCort
- Carmol HC
- Chemysone
- Colifoam
- Collusul-HC
- Colofoam
- Compound F acetate
- Cordes
- Cortacream
- Cortaid
- Cortef acetate
- Cortell
- Cortes
- Corticosterone, 17-hydroxy-, 21-acetate
- Cortifoam

Cortisol acetate
Cortisol, 21-acetate
Cortril acetate
Cortril acetate-AS
Efcolin
Eye-Cort
Fernisone
HA
Hc45
Hycortole acetate
Hydrin-2
Hydrocal
Hydrocortisat
Hydrocortisone 21-acetate
Hydrocortistab
Hydrocortone acetate
Hydrosone
Hydroxycorticosterone acetate
Hysone-A
Isopto-Hydrocortisone
Lanacort
Lenirit
Mysone
NSC 741
Pabracort
Pregn-4-ene-3,20-dione, 11 «beta», 17,21-trihydroxy-, 21-acetate
Pregn-4-ene-3,20-dione, 11 «beta», 17,21-trihydroxy-, 21-acetate
Pregn-4-ene-3,20-dione, 21-(acetoxo)-11,17-dihydroxy-, (11-«beta»)-
Pregn-4-ene-3,20-dione, 21-(acetoxo)-11,17-dihydroxy-, (11-«beta»)-
Pregn-4-ene-3,20-dione, 21-(acetyloxy)-11,17-dihydroxy-, (11-«beta»)-
Pregn-4-ene-3,20-dione, 21-(acetyloxy)-11,17-dihydroxy-, (11-«beta»)-
Proctocort
Resicort
Sigmacort
Sintotrat
Velopural
Wycort

Inchi:

InChI=1S/C23H32O6/c1-13(24)29-12-19(27)23(28)9-7-17-16-5-4-14-10-15(25)6-8-21(14)

InchiKey:

ALEXXDVDDISNDU-MCHRFJOXSA-N

Formula:

C23H32O6

SMILES:

CC(=O)OCC(=O)C1(O)CCC2C3CCC4=CC(=O)CCC4(C)C3C(O)CC21C

Mol. weight [g/mol]:

404.50

CAS:

50-03-3

Physical Properties

Property code	Value	Unit	Source
gf	-453.06	kJ/mol	Joback Method
hf	-1026.18	kJ/mol	Joback Method
hfus	34.59	kJ/mol	Joback Method
hvap	117.38	kJ/mol	Joback Method
log10ws	-4.30		Aqueous Solubility Prediction Method
log10ws	-4.88		Estimated Solubility Method
logp	2.352		Crippen Method
mvol	309.510	ml/mol	McGowan Method
pc	1741.91	kPa	Joback Method
tb	1147.14	K	Joback Method
tc	1404.43	K	Joback Method
tf	787.34	K	Joback Method
vc	1.163	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1520.29	J/molxK	1318.67	Joback Method
cpg	1586.56	J/molxK	1361.55	Joback Method
cpg	1308.14	J/molxK	1147.14	Joback Method
cpg	1354.32	J/molxK	1190.02	Joback Method
cpg	1404.71	J/molxK	1232.90	Joback Method
cpg	1459.86	J/molxK	1275.78	Joback Method
cpg	1659.18	J/molxK	1404.43	Joback Method
hfust	53.64	kJ/mol	480.00	NIST Webbook
hfust	36.95	kJ/mol	496.00	NIST Webbook

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C50033&Units=SI>

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
hfust:	Enthalpy of fusion at a given temperature
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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