

Hydrocortisone acetate

Other names:	11,17-Dihydroxy-3,20-dioxopregn-4-en-21-yl acetate, (11«beta»)-11«beta»,17«alpha»,21-Trihydroxypregn-4-ene-3,20-dione 21-acetate
	11«beta»,17«alpha»-Dihydroxy-21-acetoxypregesterone
	17-Hydroxycorticosterone acetate
	17-Hydroxycorticosterone-21-acetate
	17«alpha»-Hydrocorticosterone-21-acetate
	17«alpha»-Hydroxycorticosterone acetate
	21-Acetoxo-11«beta»,17-dihydroxypregn-4-en-3,20-dione
	21-Acetoxo-11«beta»,17-dihydroxypregn-4-ene-3,20-dione
	21-Acetoxo-11«beta»,17«alpha»-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, 21-(acetoxo)-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)[C@@]1(O)CC[C@H]2[C@@H]3CCC4=CC(=O)CC[C@]4(C)[C@H]3[C@H]2O1
Mol. weight [g/mol]: 404.50

Physical Properties

Property code	Value	Unit	Source
hfus	34.59	kJ/mol	Joback Method
log10ws	-4.30		Aqueous Solubility Prediction Method
log10ws	-4.88		Estimated Solubility Method
logp	2.352		Crippen Method

mcvol	309.510	ml/mol	McGowan Method
tf	472.03	K	Cheméo Relay (1.0)

Temperature Dependent Properties

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

Sources

Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C50033&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

tf: Normal melting (fusion) point

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