Cortisone Acetate

Other names:	11-Dehydro-17-hydroxycorticosterone acetate
	11-Dehydro-17-hydroxycorticosterone-21-acetate
	17,21-Dihydroxypregn-4-ene-3,11,20-trione 21-acetate
	21-Acetoxy-17«alpha»-hydroxy-3,11,20-triketopregnene-4
	21-Acetoxy-17«alpha»-hydroxypregn-4-ene-3,11,20-trione
	21-Acetoxy-17Â«alphaÂ»-hydroxy-3,11,20-triketopregnene-4
	21-Acetoxy-17Â«alphaÂ»-hydroxypregn-4-ene-3,11,20-trione
	4-Pregnen-17«alpha»,21-diol-3,11,20-trione 21-acetate
	4-Pregnen-17Â«alphaÂ»,21-diol-3,11,20-trione 21-acetate
	4-Pregnene-17«alpha»,21-diol-3,11,20-trione 21-acetate
	4-Pregnene-17Â«alphaÂ»,21-diol-3,11,20-trione 21-acetate
	Acetate cortisone
	Adreson
	Artriona
	Biocort acetate
	Compound E acetate
	Corlin
	Cortadren
	Cortelan
	Cortilen
	Cortisone monoacetate
	Cortisone-21-acetate
	Cortistab
	Cortisyl
	Cortisyl artriona
	Cortogen acetate
	Cortone acetate
	Incortin
	Irisone acetate
	NSC 49420
	Pregn-4-ene-3,11,20-trione, 17,21-dihydroxy-, 21-acetate
	Pregn-4-ene-3,11,20-trione, 21-(acetyloxy)-17-hydroxy-
	Ricortex
	Scheroson
Inchi:	InChI=1S/C23H30O6/c1-13(24)29-12-19(27)23(28)9-7-17-16-5-4-14-10-15(25)6-8-21(14
InchiKey:	ITRJWOMZKQRYTA-XOSMZQINSA-N
Formula:	C23H30O6
SMILES:	CC(=O)OCC(=O)C1(O)CCC2C3CCC4=CC(=O)CCC4(C)C3C(=O)CC21C
Mol. weight [g/mol]:	402.48
CAS:	50-04-4

Physical Properties

Property code	Value	Unit	Source
gf	-431.12	kJ/mol	Joback Method
hf	-991.31	kJ/mol	Joback Method
hfus	28.94	kJ/mol	Joback Method
hvap	105.26	kJ/mol	Joback Method
log10ws	-4.21		Estimated Solubility Method
logp	2.561		Crippen Method
mcvol	305.210	ml/mol	McGowan Method
pc	1707.53	kPa	Joback Method
tb	1127.45	K	Joback Method
tc	1385.62	K	Joback Method
tf	798.98	K	Joback Method
vc	1.153	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1511.50	J/mol×K	1342.59	Joback Method
cpg	1258.01	J/mol×K	1127.45	Joback Method
cpg	1300.55	J/mol×K	1170.48	Joback Method
cpg	1346.67	J/mol×K	1213.51	Joback Method
cpg	1396.87	J/mol×K	1256.53	Joback Method
cpg	1451.65	J/mol×K	1299.56	Joback Method
cpg	1576.91	J/mol×K	1385.62	Joback Method
hfust	38.43	kJ/mol	509.00	NIST Webbook

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C50044&Units=SI

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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