

Dexamethasone-21-acetate

Other names:	16«alpha»-Methyl-9«alpha»-fluoroprednisolone 21-acetate 16Â«alphaÂ»-Methyl-9Â«alphaÂ»-fluoroprednisolone 21-acetate 9-Fluoro-11«beta»,17,21-trihydroxy-16«alpha»-methylpregna-1,4-diene-3,20-dione 21-acetate 9-Fluoro-11Â«betaÂ»,17,21-trihydroxy-16Â«alphaÂ»-methylpregna-1,4-diene-3,20-dione 21-acetate 9«alpha»-Fluoro-16«alpha»-methylprednisolone acetate 9Â«alphaÂ»-Fluoro-16Â«alphaÂ»-methylprednisolone acetate Dalalone DP Dalalone LA Decadron-L.A. Decadron-LA Decadronal Dectan Dectancyl Dex-Cortidelt acetate Dexa-Cortisyl Dexamethasone acetate Dexamethasone acetate Fortecortin Fortecortin (crystal suspension) NSC 39471 Panasone Prednisolone, 9alpha-fluoro-16alpha-methyl-, acetate Prednisolone, 9«alpha»-fluoro-16«alpha»-methyl-, acetate Prednisolone, 9Â«alphaÂ»-fluoro-16Â«alphaÂ»-methyl-, acetate Pregna-1,4-diene-3,20-dione, 21-(acetyloxy)-9-fluoro-11,17-dihydroxy-16-methyl-, (11«beta»,16«alpha»)- Pregna-1,4-diene-3,20-dione, 21-(acetyloxy)-9-fluoro-11,17-dihydroxy-16-methyl-, (11Â«betaÂ»,16Â«alphaÂ»)- Pregna-1,4-diene-3,20-dione, 9-fluoro-11«beta»,17,21-trihydroxy-16«alpha»-methyl-, 21-acetate Pregna-1,4-diene-3,20-dione, 9-fluoro-11Â«betaÂ»,17,21-trihydroxy-16«alpha»-methyl-, acetate Pregna-1,4-diene-3,20-dione, 9-fluoro-11«beta»,17,21-trihydroxy-16«alpha»-methyl-, acetate Pregna-1,4-diene-3,20-dione, 9-fluoro-11Â«betaÂ»,17,21-trihydroxy-16Â«alphaÂ»-methyl-, 21-acetate Pregna-1,4-diene-3,20-dione, 9-fluoro-11«beta»,17,21-trihydroxy-16Â«alphaÂ»-methyl-, acetate [2-(9-fluoro-11,17-dihydroxy-10,13,16-trimethyl-3-oxo-6,7,8,11,12,14,15,16-octahydrocyclohepta-1,4-dien-2-yl)-2-oxoethyl] acetate Inchi=1S/C24H31FO6/c1-13-9-18-17-6-5-15-10-16(27)7-8-21(15,3)23(17,25)19(28)11-2 AKUJBENLRBOFTD-UHFFFAOYSA-N C24H31FO6 CC(=O)OCC(=O)C1(O)C(C)CC2C3CCC4=CC(=O)C=CC4(C)C3(F)C(O)CC21C 434.50 1177-87-3
Inchi:	
InchiKey:	
Formula:	
SMILES:	
Mol. weight [g/mol]:	
CAS:	

Physical Properties

Property code	Value	Unit	Source
gf	-622.69	kJ/mol	Joback Method
hf	-1190.25	kJ/mol	Joback Method
hfus	36.25	kJ/mol	Joback Method
hvap	117.63	kJ/mol	Joback Method
log10ws	-4.90		Aqueous Solubility Prediction Method
log10ws	-4.90		Estimated Solubility Method
logp	2.466		Crippen Method
mcvol	321.070	ml/mol	McGowan Method
pc	1614.17	kPa	Joback Method
tb	1164.02	K	Joback Method
tc	1425.64	K	Joback Method
tf	520.65	K	Aqueous Solubility Prediction Method
vc	1.220	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1773.45	J/mol×K	1382.04	Joback Method
cpg	1397.32	J/mol×K	1164.02	Joback Method
cpg	1457.99	J/mol×K	1207.62	Joback Method
cpg	1525.23	J/mol×K	1251.23	Joback Method
cpg	1599.75	J/mol×K	1294.83	Joback Method
cpg	1682.25	J/mol×K	1338.43	Joback Method
cpg	1874.05	J/mol×K	1425.64	Joback Method
hfust	37.72	kJ/mol	503.00	NIST Webbook

Sources

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

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=C1177873&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

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