

Aldosterone

Other names:

(+)-Aldosterone
11 «beta»,21-Dihydroxy-3,20-diketopregn-4-ene-18-al
11 «beta»,21-Dihydroxy-3,20-dioxo-pregn-4-en-18-al
11 «beta»,21-Dihydroxypregn-4-ene-3,18,20-trione
11Â«betaÂ»,21-Dihydroxy-3,20-diketopregn-4-ene-18-al
11Â«betaÂ»,21-Dihydroxy-3,20-dioxo-pregn-4-en-18-al
11Â«betaÂ»,21-Dihydroxypregn-4-ene-3,18,20-trione
18-Formyl-11 «beta»,21-dihydroxy-4-pregnene-3,20-dione
18-Formyl-11Â«betaÂ»,21-dihydroxy-4-pregnene-3,20-dione
18-Oxocorticosterone
Aldocorten
Aldocortene
Aldocortin
D-Aldosterone
Electrocortin
Elektrocortin
NSC 73856
Pregn-4-en-18-al, 11,21-dihydroxy-3,20-dioxo-, (11 «beta»)-
Pregn-4-en-18-al, 11,21-dihydroxy-3,20-dioxo-, (11Â«betaÂ»)-
Reichstein X

Inchi:

InChI=1S/C21H28O5/c1-20-7-6-13(24)8-12(20)2-3-14-15-4-5-16(18(26)10-22)21(15,11-2

InchiKey:

PQSUYGKTWSAVDQ-UHFFFAOYSA-N

Formula:

C₂₁H₂₈O₅

SMILES:

CC12CCC(=O)C=C1CCC1C2C(O)CC2(C=O)C(C(=O)CO)CCC12

Mol. weight [g/mol]:

360.44

CAS:

52-39-1

Physical Properties

Property code	Value	Unit	Source
gf	-330.01	kJ/mol	Joback Method
hf	-840.92	kJ/mol	Joback Method
hfus	35.21	kJ/mol	Joback Method
hvap	111.65	kJ/mol	Joback Method
log10ws	-3.85		Estimated Solubility Method
log10ws	-3.85		Aqueous Solubility Prediction Method

logp	1.846		Crippen Method
mvol	275.460	ml/mol	McGowan Method
pc	2027.23	kPa	Joback Method
tb	1073.51	K	Joback Method
tc	1316.26	K	Joback Method
tf	710.74	K	Joback Method
vc	1.046	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1096.69	J/mol×K	1073.51	Joback Method
cpg	1125.82	J/mol×K	1113.97	Joback Method
cpg	1156.71	J/mol×K	1154.43	Joback Method
cpg	1189.71	J/mol×K	1194.89	Joback Method
cpg	1225.17	J/mol×K	1235.35	Joback Method
cpg	1263.43	J/mol×K	1275.80	Joback Method
cpg	1304.84	J/mol×K	1316.26	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C52391&Units=SI

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
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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