# Triamcinolone Acetonide

**Other names:**

(11«beta»,16«alpha»)-9-Fluoro-11,21-dihydroxy-16,17-[(1-methylethylidene)bis(oxy)]preg
(11Â«betaÂ»,16Â«alphaÂ»)-9-Fluoro-11,21-dihydroxy-16,17-[(1-methylethylidene)bis(oxy
9-Fluoro-11«beta»,16«alpha»,17,21-tetrahydroxypregna-1,4-diene-3,20-dione cyclic 16,17-acetal with acetone
9-Fluoro-11«beta»,16«alpha»,17,21-tetrahydroxypregna-1,4-diene-3,20-dione-16,17-acet
9-Fluoro-11Â«betaÂ»,16Â«alphaÂ»,17,21-tetrahydroxypregna-1,4-diene-3,20-dione cyclic 16,17-acetal with acetone
9-Fluoro-11Â«betaÂ»,16Â«alphaÂ»,17,21-tetrahydroxypregna-1,4-diene-3,20-dione-16,1
9-«alpha»-fluoro-11-«beta»,21-dihydroxy-16-«alpha»,17-«alpha»-isopropylidenedioxypre
9-Â«alphaÂ»-fluoro-11-Â«betaÂ»,21-dihydroxy-16-Â«alphaÂ»,17-Â«alphaÂ»-isopropylid
9«alpha»-Fluoro-11«beta»,21-dihydroxy-16«alpha»,17-isopropylidenedioxy-1,4-pregnadi
9«alpha»-Fluoro-16«alpha»-17«alpha»-isopropyledenedioxyprednisolone
9«alpha»-Fluoro-16«alpha»-17«alpha»-isopropylidenedioxy-«DELTA»1-hydrocortisone
9«alpha»-Fluoro-16«alpha»-hydroxyprednisolone 16«alpha»,17«alpha»-acetonide
9Â«alphaÂ»-Fluoro-11Â«betaÂ»,21-dihydroxy-16Â«alphaÂ»,17-isopropylidenedioxy-1,4-
9Â«alphaÂ»-Fluoro-16Â«alphaÂ»-17Â«alphaÂ»-isopropyledenedioxyprednisolone
9Â«alphaÂ»-Fluoro-16Â«alphaÂ»-17Â«alphaÂ»-isopropylidenedioxy-Â«DELTAÂ»1-hydr
9Â«alphaÂ»-Fluoro-16Â«alphaÂ»-hydroxyprednisolone 16Â«alphaÂ»,17Â«alphaÂ»-acetonide
Acetospan
Adcortyl
Adcortyl A
Aristocort
Aristocort A
Aristocort acetonide
Aristoderm
Aristogel
Azmacort
Coupe-A
Delphicort
Extracort
Flutone
Ftorocort
Kenacort-A
Kenalog
Kenalone
Ledercort cream
Nasacort
Nasacort AQ
Omcilon A
Panolog ointment
Polcortolon
Pregna-1,4-diene-3,20-dione, 9-fluoro-11,21-dihydroxy-16,17-[(1-methylethylidene)bis(oxy)]-, (11.beta.,16.alpha.)-

Pregna-1,4-diene-3,20-dione, 9-fluoro-11,21-dihydroxy-16,17-[(1-methylethylidene)bis(oxy)]-, (11«beta»,16«alpha»)-

Pregna-1,4-diene-3,20-dione, 9-fluoro-11,21-dihydroxy-16,17-[(1-methylethylidene)bis(oxy)]-, (11A«betaA»,16A«alphaA»)-

Pregna-1,4-diene-3,20-dione, 9-fluoro-11«beta»,16«alpha»,17,21-tetrahydroxy-, cyclic 16,17-acetal with acetone

Pregna-1,4-diene-3,20-dione, 9-fluoro-11«beta»,21-dihydroxy-16«alpha»,17-(isopropylidenedioxy)-

Pregna-1,4-diene-3,20-dione, 9-fluoro-11Â«betaÂ»,16Â«alphaÂ»,17,21-tetrahydroxy-, cyclic 16,17-acetal with acetone

Pregna-1,4-diene-3,20-dione, 9-fluoro-11Â«betaÂ»,21-dihydroxy-16Â«alphaÂ»,17-(isopropylidenedioxy)-

Pregna-1,4-diene-3,20-dione,9alpha-fluoro-11beta,21-dihydroxy-16alpha,17alpha-isoprop

Respicort

Rineton

Solodelf

TAC-3

TAC-40

Tramacin

Tri-Nasal

Triacet

Triaceton

Triam

Triam-Injekt

Triamcincolone acetonide

Triamcinolone 16,17-acetonide

Triamonide 40

Triamsinolone acetonide

Tricinolon

Trymex

Vetalog

Volon A

Volon A 40

Volonimat

**Inchi:** InChI=1S/C24H31FO6/c1-20(2)30-19-10-16-15-6-5-13-9-14(27)7-8-21(13,3)23(15,25)17(

**InchiKey:** YNDXUCZADRHECN-UHFFFAOYSA-N

**Formula:** C24H31FO6

**SMILES:** CC1(C)OC2CC3C4CCC5=CC(=O)C=CC5(C)C4(F)C(O)CC3(C)C2(C(=O)CO)O1

**Mol. weight [g/mol]:** 434.50

**CAS:** 76-25-5

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -505.75 | kJ/mol | Joback Method |
| hf | -1121.41 | kJ/mol | Joback Method |

| | | | |
|---|---|---|---|
| hfus | 41.26 | kJ/mol | Joback Method |
| hvap | 116.25 | kJ/mol | Joback Method |
| log10ws | -4.31 | | Estimated Solubility Method |
| log10ws | -3.89 | | Aqueous Solubility Prediction Method |
| logp | 2.419 | | Crippen Method |
| mcvol | 314.510 | ml/mol | McGowan Method |
| pc | 1768.38 | kPa | Joback Method |
| tb | 1148.61 | K | Joback Method |
| tc | 1406.52 | K | Joback Method |
| tf | 842.44 | K | Joback Method |
| vc | 1.194 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1430.15 | J/mol×K | 1148.61 | Joback Method |
| cpg | 1502.87 | J/mol×K | 1191.60 | Joback Method |
| cpg | 1584.42 | J/mol×K | 1234.58 | Joback Method |
| cpg | 1675.70 | J/mol×K | 1277.57 | Joback Method |
| cpg | 1777.60 | J/mol×K | 1320.55 | Joback Method |
| cpg | 1891.00 | J/mol×K | 1363.54 | Joback Method |
| cpg | 2016.79 | J/mol×K | 1406.52 | Joback Method |
| hfust | 45.29 | kJ/mol | 566.00 | NIST Webbook |
| hfust | 45.29 | kJ/mol | 566.00 | NIST Webbook |

# Sources

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C76255&Units=SI

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

**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 |