

# Flumethasone

<b>Other names:</b>	6,9-difluoro-11,17-dihydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-6,7,8,11,12,14,15,17-octahydro-1H-benzofuro[3,2-c]pyridine
<b>Inchi:</b>	InChI=1S/C22H28F2O5/c1-11-6-13-14-8-16(23)15-7-12(26)4-5-19(15,2)21(14,24)17(27)22
<b>InchiKey:</b>	WXURHACBFYSXBI-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>22</sub> H <sub>28</sub> F <sub>2</sub> O <sub>5</sub>
<b>SMILES:</b>	CC1CC2C3CC(F)C4=CC(=O)C=CC4(C)C3(F)C(O)CC2(C)C1(O)C(=O)CO
<b>Mol. weight [g/mol]:</b>	410.46

## Physical Properties

Property code	Value	Unit	Source
gf	-744.95	kJ/mol	Joback Method
hf	-1272.85	kJ/mol	Joback Method
hfus	36.53	kJ/mol	Joback Method
hvap	119.57	kJ/mol	Joback Method
log10ws	-5.61		Aqueous Solubility Prediction Method
log10ws	-5.61		Estimated Solubility Method
logp	1.844		Crippen Method
mcvol	293.090	ml/mol	McGowan Method
pc	1843.58	kPa	Joback Method
tb	1128.75	K	Joback Method
tc	1384.14	K	Joback Method
tf	782.09	K	Joback Method
vc	1.121	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1272.59	J/molxK	1128.75	Joback Method
cpg	1327.08	J/molxK	1171.31	Joback Method
cpg	1387.57	J/molxK	1213.88	Joback Method
cpg	1454.73	J/molxK	1256.44	Joback Method
cpg	1529.24	J/molxK	1299.01	Joback Method
cpg	1611.76	J/molxK	1341.57	Joback Method

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Joback Method:** [https://en.wikipedia.org/wiki/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](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

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcpvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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