

# 2Alpha-fluoro-17beta-hydroxy-5alpha-androstan-3

<b>Inchi:</b>	InChI=1S/C19H29FO2/c1-18-8-7-14-12(13(18)5-6-17(18)22)4-3-11-9-16(21)15(20)10-19
<b>InchiKey:</b>	QBAHMYSNLVHPJQ-UHFFFAOYSA-N
<b>Formula:</b>	C19H29FO2
<b>SMILES:</b>	CC12CCC3C(CCC4CC(=O)C(F)CC43C)C1CCC2O
<b>Mol. weight [g/mol]:</b>	308.43
<b>CAS:</b>	1649-46-3

## Physical Properties

Property code	Value	Unit	Source
gf	-204.44	kJ/mol	Joback Method
hf	-712.01	kJ/mol	Joback Method
hfus	25.37	kJ/mol	Joback Method
hvap	74.97	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	3.907		Crippen Method
mcvol	244.340	ml/mol	McGowan Method
pc	1800.03	kPa	Joback Method
tb	823.50	K	Joback Method
tc	1049.41	K	Joback Method
tf	518.52	K	Joback Method
vc	0.923	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	880.88	J/molxK	823.50	Joback Method
cpg	905.06	J/molxK	861.15	Joback Method
cpg	928.93	J/molxK	898.80	Joback Method
cpg	952.74	J/molxK	936.45	Joback Method
cpg	976.77	J/molxK	974.10	Joback Method
cpg	1001.30	J/molxK	1011.76	Joback Method
cpg	1026.59	J/molxK	1049.41	Joback Method

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1649463&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1649463&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

# 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>mcvol:</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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