

# 5-«beta»-Androstan-3-«beta»,17-«beta»-diol, HFB

Inchi:	InChI=1S/C27H30F14O4/c1-20-9-7-13(44-18(42)22(28,29)24(32,33)26(36,37)38)11-12(2
InchiKey:	KOMLRGSNUAXTUDU-MWBOZAONSA-N
Formula:	C27H30F14O4
SMILES:	CC12CCC(OC(=O)C(F)(F)C(F)(F)C(F)(F)F)CC1CCC1C2CCC2(C)C(OC(=O)C(F)(F)C(F)(F)C(F)(F)F)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	684.50

## Physical Properties

Property code	Value	Unit	Source
gf	-2861.00	kJ/mol	Joback Method
hf	-3678.73	kJ/mol	Joback Method
hfus	43.62	kJ/mol	Joback Method
hvap	71.77	kJ/mol	Joback Method
log10ws	-9.78		Crippen Method
logp	8.519		Crippen Method
mvol	387.510	ml/mol	McGowan Method
pc	758.49	kPa	Joback Method
rmpol	2386.00		NIST Webbook
rmpol	2380.00		NIST Webbook
tb	970.25	K	Joback Method
tc	1188.59	K	Joback Method
tf	646.15	K	Joback Method
vc	1.562	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1482.73	J/molxK	970.25	Joback Method
cpg	1509.14	J/molxK	1006.64	Joback Method
cpg	1536.50	J/molxK	1043.03	Joback Method
cpg	1565.23	J/molxK	1079.42	Joback Method
cpg	1595.73	J/molxK	1115.81	Joback Method
cpg	1628.42	J/molxK	1152.20	Joback Method
cpg	1663.70	J/molxK	1188.59	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<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=R385114&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R385114&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>rinpola:</b>	Non-polar retention indices
<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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