

# trans-Dehydroandrosterone, pentafluoropropionate

<b>Inchi:</b>	InChI=1S/C22H27F5O3/c1-19-9-7-13(30-18(29)21(23,24)22(25,26)27)11-12(19)3-4-14-1
<b>InchiKey:</b>	WQVZUVYAIXHPIW-UHFFFAOYSA-N
<b>Formula:</b>	C22H27F5O3
<b>SMILES:</b>	CC12CCC3C(CC=C4CC(OC(=O)C(F)(F)C(F)(F)F)CCC43C)C1CCC2=O
<b>Mol. weight [g/mol]:</b>	434.44

## Physical Properties

Property code	Value	Unit	Source
gf	-1014.09	kJ/mol	Joback Method
hf	-1581.45	kJ/mol	Joback Method
hfus	28.02	kJ/mol	Joback Method
hvap	69.84	kJ/mol	Joback Method
log10ws	-6.49		Crippen Method
logp	5.628		Crippen Method
mcvol	290.960	ml/mol	McGowan Method
pc	1326.17	kPa	Joback Method
rinsol	2454.20		NIST Webbook
tb	880.35	K	Joback Method
tc	1105.27	K	Joback Method
tf	592.63	K	Joback Method
vc	1.135	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1044.69	J/mol×K	880.35	Joback Method
cpg	1068.26	J/mol×K	917.84	Joback Method
cpg	1091.94	J/mol×K	955.32	Joback Method
cpg	1116.05	J/mol×K	992.81	Joback Method
cpg	1140.91	J/mol×K	1030.30	Joback Method
cpg	1166.83	J/mol×K	1067.79	Joback Method
cpg	1194.15	J/mol×K	1105.27	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U352251&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352251&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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