

# trans-Dehydroandrosterone, trifluoroacetate

<b>Inchi:</b>	InChI=1S/C21H27F3O3/c1-19-9-7-13(27-18(26)21(22,23)24)11-12(19)3-4-14-15-5-6-17(
<b>InchiKey:</b>	DDDJCSTQYHRFY-UHFFFAOYSA-N
<b>Formula:</b>	C21H27F3O3
<b>SMILES:</b>	CC12CCC3C(CC=C4CC(OC(=O)C(F)(F)F)CCC43C)C1CCC2=O
<b>Mol. weight [g/mol]:</b>	384.43

## Physical Properties

Property code	Value	Unit	Source
gf	-635.73	kJ/mol	Joback Method
hf	-1159.84	kJ/mol	Joback Method
hfus	26.69	kJ/mol	Joback Method
hvap	70.54	kJ/mol	Joback Method
log10ws	-5.75		Crippen Method
logp	4.992		Crippen Method
mcvol	273.330	ml/mol	McGowan Method
pc	1503.48	kPa	Joback Method
rinsol	2461.40		NIST Webbook
tb	862.16	K	Joback Method
tc	1094.91	K	Joback Method
tf	577.76	K	Joback Method
vc	1.054	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.33	J/molxK	862.16	Joback Method
cpg	991.42	J/molxK	900.95	Joback Method
cpg	1015.48	J/molxK	939.74	Joback Method
cpg	1039.83	J/molxK	978.53	Joback Method
cpg	1064.79	J/molxK	1017.32	Joback Method
cpg	1090.69	J/molxK	1056.12	Joback Method
cpg	1117.84	J/molxK	1094.91	Joback Method

# Sources

<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>
<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=U352252&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352252&amp;Units=SI</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>hvac:</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>mccol:</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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