

# trans-Dehydroandrosterone, heptafluorobutyrate

<b>Inchi:</b>	InChI=1S/C23H27F7O3/c1-19-9-7-13(33-18(32)21(24,25)22(26,27)23(28,29)30)11-12(19)
<b>InchiKey:</b>	ZSZXVWUIMGNJSD-UHFFFAOYSA-N
<b>Formula:</b>	C23H27F7O3
<b>SMILES:</b>	CC12CCC3C(CC=C4CC(OC(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)CCC43C)C1CCC2=O
<b>Mol. weight [g/mol]:</b>	484.45

## Physical Properties

Property code	Value	Unit	Source
gf	-1392.45	kJ/mol	Joback Method
hf	-2003.06	kJ/mol	Joback Method
hfus	29.36	kJ/mol	Joback Method
hvap	69.13	kJ/mol	Joback Method
log10ws	-7.22		Crippen Method
logp	6.263		Crippen Method
mcvol	308.590	ml/mol	McGowan Method
pc	1178.47	kPa	Joback Method
rinpol	2489.10		NIST Webbook
tb	898.54	K	Joback Method
tc	1117.72	K	Joback Method
tf	607.50	K	Joback Method
vc	1.216	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1122.35	J/molxK	898.54	Joback Method
cpg	1145.66	J/molxK	935.07	Joback Method
cpg	1169.24	J/molxK	971.60	Joback Method
cpg	1193.40	J/molxK	1008.13	Joback Method
cpg	1218.47	J/molxK	1044.66	Joback Method
cpg	1244.77	J/molxK	1081.19	Joback Method
cpg	1272.64	J/molxK	1117.72	Joback Method

# Sources

<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=U352250&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352250&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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