

# 3-Oxoandrost-4-ene-17B-carboxaldehyde

<b>Inchi:</b>	InChI=1S/C20H28O2/c1-19-9-7-15(22)11-13(19)3-5-16-17-6-4-14(12-21)20(17,2)10-8-18
<b>InchiKey:</b>	VZHQDHQAMFXIJW-JQBYDDJRSA-N
<b>Formula:</b>	C20H28O2
<b>SMILES:</b>	CC12CCC(=O)C=C1CCC1C2CCC2(C)C(C=O)CCC12
<b>Mol. weight [g/mol]:</b>	300.44

## Physical Properties

Property code	Value	Unit	Source
gf	71.84	kJ/mol	Joback Method
hf	-382.90	kJ/mol	Joback Method
hfus	21.77	kJ/mol	Joback Method
hvap	69.63	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	4.333		Crippen Method
mvol	248.060	ml/mol	McGowan Method
pc	1827.85	kPa	Joback Method
rinpol	2660.00		NIST Webbook
rinpol	2660.00		NIST Webbook
tb	817.07	K	Joback Method
tc	1068.50	K	Joback Method
tf	532.14	K	Joback Method
vc	0.948	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	849.60	J/mol×K	817.07	Joback Method
cpg	875.39	J/mol×K	858.98	Joback Method
cpg	900.93	J/mol×K	900.88	Joback Method
cpg	926.59	J/mol×K	942.79	Joback Method
cpg	952.77	J/mol×K	984.69	Joback Method
cpg	979.86	J/mol×K	1026.60	Joback Method
cpg	1008.24	J/mol×K	1068.50	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=R93042&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R93042&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>
<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>h vap:</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>r in pol:</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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