

# Androstan-3-one, (5«alpha»)-

<b>Other names:</b>	5«alpha»-Androstan-3-one Androstan-3-one
<b>Inchi:</b>	InChI=1S/C19H30O/c1-18-9-3-4-16(18)15-6-5-13-12-14(20)7-11-19(13,2)17(15)8-10-18/
<b>InchiKey:</b>	VMNRNUNYBVFVQI-OCUVBNDUSA-N
<b>Formula:</b>	C19H30O
<b>SMILES:</b>	CC12CCCC1C1CCC3CC(=O)CCC3(C)C1CC2
<b>Mol. weight [g/mol]:</b>	274.44
<b>CAS:</b>	1224-95-9

## Physical Properties

Property code	Value	Unit	Source
gf	142.61	kJ/mol	Joback Method
hf	-322.99	kJ/mol	Joback Method
hfus	16.06	kJ/mol	Joback Method
hvap	59.73	kJ/mol	Joback Method
log10ws	-5.18		Crippen Method
logp	4.988		Crippen Method
mcvol	236.700	ml/mol	McGowan Method
pc	1829.41	kPa	Joback Method
rinpola	2027.00		NIST Webbook
rinpola	2027.00		NIST Webbook
tb	741.39	K	Joback Method
tc	995.68	K	Joback Method
tf	465.59	K	Joback Method
vc	0.888	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	789.31	J/mol×K	741.39	Joback Method
cpg	817.52	J/mol×K	783.77	Joback Method
cpg	844.73	J/mol×K	826.15	Joback Method
cpg	871.34	J/mol×K	868.54	Joback Method
cpg	897.76	J/mol×K	910.92	Joback Method

cpg	924.41	J/mol×K	953.30	Joback Method
cpg	951.68	J/mol×K	995.68	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=C1224959&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1224959&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>

## 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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