

# Muurolandienol

<b>Inchi:</b>	InChI=1S/C15H24O/c1-10-4-6-13-11(2)5-7-14(12(3)9-16)15(13)8-10/h8,11-13,16H,4-7,9
<b>InchiKey:</b>	GDKHIWBIRLCZPE-YPHAAILGSA-N
<b>Formula:</b>	C15H24O
<b>SMILES:</b>	CC1=CC2=C(C(C)CO)CCC(C)C2CC1
<b>Mol. weight [g/mol]:</b>	220.35

## Physical Properties

Property code	Value	Unit	Source
gf	40.29	kJ/mol	Joback Method
hf	-308.33	kJ/mol	Joback Method
hfus	24.32	kJ/mol	Joback Method
hvap	68.36	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.698		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2121.68	kPa	Joback Method
rinpol	1675.00		NIST Webbook
rinpol	1675.00		NIST Webbook
tb	678.16	K	Joback Method
tc	880.21	K	Joback Method
tf	365.51	K	Joback Method
vc	0.743	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.29	J/molxK	678.16	Joback Method
cpg	592.10	J/molxK	711.84	Joback Method
cpg	608.90	J/molxK	745.51	Joback Method
cpg	624.71	J/molxK	779.19	Joback Method
cpg	639.59	J/molxK	812.86	Joback Method
cpg	653.58	J/molxK	846.54	Joback Method
cpg	666.73	J/molxK	880.21	Joback Method
dvisc	0.0037002	Paxs	365.51	Joback Method

dvisc	0.0013485	Paxs	417.62	Joback Method
dvisc	0.0006148	Paxs	469.73	Joback Method
dvisc	0.0003279	Paxs	521.84	Joback Method
dvisc	0.0001961	Paxs	573.94	Joback Method
dvisc	0.0001277	Paxs	626.05	Joback Method
dvisc	0.0000888	Paxs	678.16	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=R325058&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R325058&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</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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