

# Muurolane-B

<b>Inchi:</b>	InChI=1S/C15H28/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h10-15H,5-9H2,1-4H3
<b>InchiKey:</b>	FZZNNPQZDRVKLU-UHFFFAOYSA-N
<b>Formula:</b>	C15H28
<b>SMILES:</b>	CC1CCC2C(C)CCC(C(C)C)C2C1
<b>Mol. weight [g/mol]:</b>	208.38

## Physical Properties

Property code	Value	Unit	Source
gf	122.95	kJ/mol	Joback Method
hf	-298.27	kJ/mol	Joback Method
hfus	22.17	kJ/mol	Joback Method
hvap	48.18	kJ/mol	Joback Method
log10ws	-4.44		Crippen Method
logp	4.741		Crippen Method
mcvol	200.490	ml/mol	McGowan Method
pc	1752.14	kPa	Joback Method
rinpol	1496.00		NIST Webbook
tb	558.71	K	Joback Method
tc	767.90	K	Joback Method
tf	252.89	K	Joback Method
vc	0.749	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	540.96	J/molxK	558.71	Joback Method
cpg	567.48	J/molxK	593.57	Joback Method
cpg	592.55	J/molxK	628.44	Joback Method
cpg	616.21	J/molxK	663.30	Joback Method
cpg	638.49	J/molxK	698.17	Joback Method
cpg	659.45	J/molxK	733.03	Joback Method
cpg	679.13	J/molxK	767.90	Joback Method
dvisc	0.0025609	Paxs	252.89	Joback Method
dvisc	0.0014675	Paxs	303.86	Joback Method

dvisc	0.0009869	Paxs	354.83	Joback Method
dvisc	0.0007332	Paxs	405.80	Joback Method
dvisc	0.0005821	Paxs	456.77	Joback Method
dvisc	0.0004840	Paxs	507.74	Joback Method
dvisc	0.0004163	Paxs	558.71	Joback Method

## Sources

<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=U121637&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U121637&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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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