

# (+)-Muurolan-4,7-peroxide

<b>Inchi:</b>	InChI=1S/C15H26O2/c1-10(2)15-8-5-11(3)12-6-7-14(4,16-17-15)9-13(12)15/h10-13H,5-9
<b>InchiKey:</b>	IGPMTDORMOJTHZ-FKQQDJLNSA-N
<b>Formula:</b>	C15H26O2
<b>SMILES:</b>	CC1CCC2(C(C)C)OOC3(C)CCC1C2C3
<b>Mol. weight [g/mol]:</b>	238.37

## Physical Properties

Property code	Value	Unit	Source
gf	20.29	kJ/mol	Joback Method
hf	-432.49	kJ/mol	Joback Method
hfus	24.69	kJ/mol	Joback Method
hvap	54.95	kJ/mol	Joback Method
log10ws	-4.21		Crippen Method
logp	3.948		Crippen Method
mcvol	201.370	ml/mol	McGowan Method
pc	2106.13	kPa	Joback Method
rinpol	1485.00		NIST Webbook
rinpol	1485.00		NIST Webbook
tb	620.23	K	Joback Method
tc	849.95	K	Joback Method
tf	379.53	K	Joback Method
vc	0.752	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	597.39	J/mol×K	620.23	Joback Method
cpg	620.95	J/mol×K	658.52	Joback Method
cpg	643.13	J/mol×K	696.80	Joback Method
cpg	664.23	J/mol×K	735.09	Joback Method
cpg	684.56	J/mol×K	773.38	Joback Method
cpg	704.41	J/mol×K	811.67	Joback Method
cpg	724.09	J/mol×K	849.95	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=R411337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R411337&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>hvp:</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>rinp:</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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