

# 8-Decen-3-ol, 5,9-dimethyl-

<b>Other names:</b>	5,9-Dimethyl-8-decen-3-ol
<b>Inchi:</b>	InChI=1S/C12H24O/c1-5-12(13)9-11(4)8-6-7-10(2)3/h7,11-13H,5-6,8-9H2,1-4H3
<b>InchiKey:</b>	YBQNRPVINYKRGQ-UHFFFAOYSA-N
<b>Formula:</b>	C12H24O
<b>SMILES:</b>	CCC(O)CC(C)CCC=C(C)C
<b>Mol. weight [g/mol]:</b>	184.32
<b>CAS:</b>	19550-54-0

## Physical Properties

Property code	Value	Unit	Source
gf	-19.87	kJ/mol	Joback Method
hf	-346.37	kJ/mol	Joback Method
hfus	22.77	kJ/mol	Joback Method
hvap	58.25	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.530		Crippen Method
mcvol	181.510	ml/mol	McGowan Method
pc	2056.76	kPa	Joback Method
tb	569.30	K	Joback Method
tc	740.46	K	Joback Method
tf	236.78	K	Joback Method
vc	0.696	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.94	J/mol×K	569.30	Joback Method
cpg	474.94	J/mol×K	597.83	Joback Method
cpg	489.26	J/mol×K	626.35	Joback Method
cpg	502.95	J/mol×K	654.88	Joback Method
cpg	516.02	J/mol×K	683.41	Joback Method
cpg	528.49	J/mol×K	711.93	Joback Method
cpg	540.40	J/mol×K	740.46	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=C19550540&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19550540&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>
<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>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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