

# 1,6-Octadiene, 3-ethoxy-3,7-dimethyl-

<b>Other names:</b>	3-Ethoxy-3,7-dimethyl-1,6-octadiene Ethyl linalool 3-ethoxy-3,7-dimethylocta-1,6-diene Ethoxylinalool
<b>Inchi:</b>	InChI=1S/C12H22O/c1-6-12(5,13-7-2)10-8-9-11(3)4/h6,9H,1,7-8,10H2,2-5H3
<b>InchiKey:</b>	GSFBRCUXDDCNKV-UHFFFAOYSA-N
<b>Formula:</b>	C12H22O
<b>SMILES:</b>	<chem>C=CC(C)(CCC=C(C)C)OCC</chem>
<b>Mol. weight [g/mol]:</b>	182.30
<b>CAS:</b>	72845-33-1

## Physical Properties

Property code	Value	Unit	Source
gf	107.51	kJ/mol	Joback Method
hf	-199.12	kJ/mol	Joback Method
hfus	18.22	kJ/mol	Joback Method
hvap	42.79	kJ/mol	Joback Method
log10ws	-3.75		Crippen Method
logp	3.714		Crippen Method
mcvol	177.210	ml/mol	McGowan Method
pc	1942.37	kPa	Joback Method
ripol	1725.00		NIST Webbook
ripol	1725.00		NIST Webbook
tb	493.87	K	Joback Method
tc	677.89	K	Joback Method
tf	228.85	K	Joback Method
vc	0.676	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	403.04	J/mol×K	493.87	Joback Method
cpg	420.23	J/mol×K	524.54	Joback Method
cpg	436.55	J/mol×K	555.21	Joback Method

cpg	452.04	J/mol×K	585.88	Joback Method
cpg	466.75	J/mol×K	616.55	Joback Method
cpg	480.70	J/mol×K	647.22	Joback Method
cpg	493.93	J/mol×K	677.89	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=C72845331&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C72845331&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>
<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>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>ripol:</b>	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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