

# Butanoic acid, 3-methyl-, 1-ethenyl-1,5-dimethyl-4-hexenyl ester

Other names:

Linalyl 3-methylbutanoate  
Linalyl iso-valerate  
Isovaleric acid, linalyl ester  
Butanoic acid, 3-methyl-, 1-ethenyl-1,5-dimethyl-4-hexen-1-yl ester  
1,6-Octadien-3-ol, 3,7-dimethyl-, isovalerate  
1,5-dimethyl-1-vinylhex-4-enyl isovalerate

**Inchi:** InChI=1S/C15H26O2/c1-7-15(6,10-8-9-12(2)3)17-14(16)11-13(4)5/h7,9,13H,1,8,10-11H2

**InchiKey:** WCDGWAIZRYMVOW-UHFFFAOYSA-N

**Formula:** C15H26O2

**SMILES:** C=CC(C)(CCC=C(C)C)OC(=O)CC(C)C

**Mol. weight [g/mol]:** 238.37

**CAS:** 1118-27-0

## Physical Properties

Property code	Value	Unit	Source
gf	1.41	kJ/mol	Joback Method
hf	-378.90	kJ/mol	Joback Method
hfus	24.07	kJ/mol	Joback Method
hvap	55.82	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	4.267		Crippen Method
mcvol	221.050	ml/mol	McGowan Method
pc	1618.07	kPa	Joback Method
rinpol	1473.00		NIST Webbook
rinpol	1484.00		NIST Webbook
rinpol	1484.00		NIST Webbook
ripol	1853.00		NIST Webbook
tb	615.94	K	Joback Method
tc	805.63	K	Joback Method
tf	297.59	K	Joback Method
vc	0.845	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	581.43	J/mol×K	615.94	Joback Method
cpg	599.22	J/mol×K	647.55	Joback Method
cpg	616.05	J/mol×K	679.17	Joback Method
cpg	631.97	J/mol×K	710.78	Joback Method
cpg	647.03	J/mol×K	742.40	Joback Method
cpg	661.27	J/mol×K	774.01	Joback Method
cpg	674.74	J/mol×K	805.63	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1118270&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1118270&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>rinpol:</b>	Non-polar retention indices
<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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