

# (E)-2-Butyloct-2-enal

<b>Other names:</b>	2-butyl-2-octenal (E) 2-Octenal, 2-butyl, (E)-
<b>Inchi:</b>	InChI=1S/C12H22O/c1-3-5-7-8-10-12(11-13)9-6-4-2/h10-11H,3-9H2,1-2H3/b12-10+
<b>InchiKey:</b>	LYGMPIZYNJGJKP-ZRDIBKRKSA-N
<b>Formula:</b>	C12H22O
<b>SMILES:</b>	CCCCC=C(C=O)CCCC
<b>Mol. weight [g/mol]:</b>	182.30

## Physical Properties

Property code	Value	Unit	Source
gf	22.31	kJ/mol	Joback Method
hf	-269.16	kJ/mol	Joback Method
hfus	28.02	kJ/mol	Joback Method
hvap	49.06	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.882		Crippen Method
mcvol	177.210	ml/mol	McGowan Method
pc	1994.77	kPa	Joback Method
rinpol	1385.00		NIST Webbook
rinpol	1357.00		NIST Webbook
rinpol	1371.00		NIST Webbook
ripol	1697.00		NIST Webbook
tb	526.66	K	Joback Method
tc	702.71	K	Joback Method
tf	247.96	K	Joback Method
vc	0.706	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.67	J/molxK	526.66	Joback Method
cpg	434.19	J/molxK	556.00	Joback Method
cpg	448.99	J/molxK	585.34	Joback Method
cpg	463.12	J/molxK	614.69	Joback Method

cpg	476.60	J/mol×K	644.03	Joback Method
cpg	489.45	J/mol×K	673.37	Joback Method
cpg	501.71	J/mol×K	702.71	Joback Method

## Sources

<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>
<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=R54513&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R54513&amp;Units=SI</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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