

# 9-Decenyl butyrate

<b>Other names:</b>	9-Decen-1-yl butyrate
<b>Inchi:</b>	InChI=1S/C14H26O2/c1-3-5-6-7-8-9-10-11-13-16-14(15)12-4-2/h3H,1,4-13H2,2H3
<b>InchiKey:</b>	OXQAEUZRQIWLGZ-UHFFFAOYSA-N
<b>Formula:</b>	C14H26O2
<b>SMILES:</b>	C=CCCCCCCCCOC(=O)CCC
<b>Mol. weight [g/mol]:</b>	226.35

## Physical Properties

Property code	Value	Unit	Source
gf	-79.08	kJ/mol	Joback Method
hf	-451.66	kJ/mol	Joback Method
hfus	33.52	kJ/mol	Joback Method
hvap	55.24	kJ/mol	Joback Method
log10ws	-4.40		Crippen Method
logp	4.246		Crippen Method
mvol	211.260	ml/mol	McGowan Method
pc	1633.81	kPa	Joback Method
rinpol	1563.00		NIST Webbook
rinpol	1558.00		NIST Webbook
rinpol	1558.00		NIST Webbook
rinpol	1563.00		NIST Webbook
ripol	1870.00		NIST Webbook
tb	592.69	K	Joback Method
tc	763.14	K	Joback Method
tf	317.94	K	Joback Method
vc	0.825	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	545.69	J/molxK	592.69	Joback Method
cpg	562.09	J/molxK	621.10	Joback Method
cpg	577.79	J/molxK	649.51	Joback Method
cpg	592.82	J/molxK	677.92	Joback Method

cpg	607.19	J/molxK	706.32	Joback Method
cpg	620.91	J/molxK	734.73	Joback Method
cpg	634.00	J/molxK	763.14	Joback Method
dvisc	0.0026588	Paxs	317.94	Joback Method
dvisc	0.0012373	Paxs	363.73	Joback Method
dvisc	0.0006832	Paxs	409.52	Joback Method
dvisc	0.0004251	Paxs	455.31	Joback Method
dvisc	0.0002885	Paxs	501.11	Joback Method
dvisc	0.0002089	Paxs	546.90	Joback Method
dvisc	0.0001590	Paxs	592.69	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=R409359&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R409359&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>
<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>dvisc:</b>	Dynamic viscosity
<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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