

# 2-Hydroxyethyl nonanoate

<b>Inchi:</b>	InChI=1S/C11H22O3/c1-2-3-4-5-6-7-8-11(13)14-10-9-12/h12H,2-10H2,1H3
<b>InchiKey:</b>	FYEXIVKYDZIYEG-UHFFFAOYSA-N
<b>Formula:</b>	C11H22O3
<b>SMILES:</b>	CCCCCCCCC(=O)OCCO
<b>Mol. weight [g/mol]:</b>	202.29

## Physical Properties

Property code	Value	Unit	Source
gf	-329.00	kJ/mol	Joback Method
hf	-667.40	kJ/mol	Joback Method
hfus	31.12	kJ/mol	Joback Method
hvap	65.92	kJ/mol	Joback Method
log10ws	-2.55		Crippen Method
logp	2.273		Crippen Method
mcvol	179.160	ml/mol	McGowan Method
pc	2191.78	kPa	Joback Method
rinsol	1498.00		NIST Webbook
tb	619.55	K	Joback Method
tc	786.12	K	Joback Method
tf	346.71	K	Joback Method
vc	0.695	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	478.57	J/molxK	619.55	Joback Method
cpg	491.58	J/molxK	647.31	Joback Method
cpg	504.05	J/molxK	675.07	Joback Method
cpg	515.99	J/molxK	702.84	Joback Method
cpg	527.42	J/molxK	730.60	Joback Method
cpg	538.33	J/molxK	758.36	Joback Method
cpg	548.74	J/molxK	786.12	Joback Method
dvisc	0.0050390	Paxs	346.71	Joback Method
dvisc	0.0015980	Paxs	392.18	Joback Method

dvisc	0.0006434	Paxs	437.66	Joback Method
dvisc	0.0003074	Paxs	483.13	Joback Method
dvisc	0.0001668	Paxs	528.60	Joback Method
dvisc	0.0000997	Paxs	574.08	Joback Method
dvisc	0.0000643	Paxs	619.55	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=R540519&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540519&amp;Units=SI</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>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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