

# 2-Propenoic acid, 2-methyl-, nonyl ester

<b>Other names:</b>	Nonyl methacrylate
<b>Inchi:</b>	InChI=1S/C13H24O2/c1-4-5-6-7-8-9-10-11-15-13(14)12(2)3/h2,4-11H2,1,3H3
<b>InchiKey:</b>	LKEDKQWWISEKSW-UHFFFAOYSA-N
<b>Formula:</b>	C13H24O2
<b>SMILES:</b>	C=C(C)C(=O)OCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	212.33
<b>CAS:</b>	2696-43-7

## Physical Properties

Property code	Value	Unit	Source
gf	-96.05	kJ/mol	Joback Method
hf	-440.81	kJ/mol	Joback Method
hfus	29.62	kJ/mol	Joback Method
hvap	53.10	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.856		Crippen Method
mcvol	197.170	ml/mol	McGowan Method
pc	1775.84	kPa	Joback Method
rinpol	1457.00		NIST Webbook
rinpol	1456.00		NIST Webbook
rinpol	1456.00		NIST Webbook
ripol	1732.00		NIST Webbook
ripol	1740.00		NIST Webbook
tb	569.69	K	Joback Method
tc	743.68	K	Joback Method
tf	292.71	K	Joback Method
vc	0.769	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	493.99	J/molxK	569.69	Joback Method
cpg	510.01	J/molxK	598.69	Joback Method
cpg	525.36	J/molxK	627.69	Joback Method

cpg	540.04	J/mol×K	656.68	Joback Method
cpg	554.08	J/mol×K	685.68	Joback Method
cpg	567.48	J/mol×K	714.68	Joback Method
cpg	580.27	J/mol×K	743.68	Joback Method
cpl	419.30	J/mol×K	298.15	NIST Webbook

## 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=C2696437&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2696437&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>cpl:</b>	Liquid phase 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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