

# 8-Nonenoic acid, methyl ester

<b>Other names:</b>	Methyl 8-nonenoate
<b>Inchi:</b>	InChI=1S/C10H18O2/c1-3-4-5-6-7-8-9-10(11)12-2/h3H,1,4-9H2,2H3
<b>InchiKey:</b>	PWAJIGUTWKGVLP-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	C=CCCCCCCC(=O)OC
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	20731-23-1

## Physical Properties

Property code	Value	Unit	Source
gf	-112.76	kJ/mol	Joback Method
hf	-369.10	kJ/mol	Joback Method
hfus	23.16	kJ/mol	Joback Method
hvap	46.34	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.686		Crippen Method
mcvol	154.900	ml/mol	McGowan Method
pc	2289.32	kPa	Joback Method
rinpol	1216.00		NIST Webbook
tb	501.17	K	Joback Method
tc	676.68	K	Joback Method
tf	272.86	K	Joback Method
vc	0.601	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.85	J/molxK	501.17	Joback Method
cpg	412.57	J/molxK	647.43	Joback Method
cpg	401.07	J/molxK	618.18	Joback Method
cpg	389.06	J/molxK	588.93	Joback Method
cpg	376.52	J/molxK	559.67	Joback Method
cpg	363.46	J/molxK	530.42	Joback Method
cpg	423.57	J/molxK	676.68	Joback Method

dvisc	0.0002268	Paxs	501.17	Joback Method
dvisc	0.0002926	Paxs	463.12	Joback Method
dvisc	0.0003952	Paxs	425.07	Joback Method
dvisc	0.0005663	Paxs	387.01	Joback Method
dvisc	0.0008777	Paxs	348.96	Joback Method
dvisc	0.0015143	Paxs	310.91	Joback Method
dvisc	0.0030420	Paxs	272.86	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C20731231&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20731231&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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