

# Nonanoic acid, decyl ester

<b>Inchi:</b>	InChI=1S/C19H38O2/c1-3-5-7-9-11-12-14-16-18-21-19(20)17-15-13-10-8-6-4-2/h3-18H2
<b>InchiKey:</b>	KEGIMMCZWZCLGJ-UHFFFAOYSA-N
<b>Formula:</b>	C19H38O2
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCCCCCC
<b>Mol. weight [g/mol]:</b>	298.50

## Physical Properties

Property code	Value	Unit	Source
gf	-124.82	kJ/mol	Joback Method
hf	-680.29	kJ/mol	Joback Method
hfus	47.75	kJ/mol	Joback Method
hvap	67.04	kJ/mol	Joback Method
log10ws	-6.64		Crippen Method
logp	6.421		Crippen Method
mcvol	286.010	ml/mol	McGowan Method
pc	1114.08	kPa	Joback Method
rinpol	2074.00		NIST Webbook
rinpol	2074.00		NIST Webbook
tb	710.41	K	Joback Method
tc	879.90	K	Joback Method
tf	376.05	K	Joback Method
vc	1.123	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	848.69	J/mol×K	710.41	Joback Method
cpg	867.91	J/mol×K	738.66	Joback Method
cpg	886.25	J/mol×K	766.91	Joback Method
cpg	903.75	J/mol×K	795.15	Joback Method
cpg	920.41	J/mol×K	823.40	Joback Method
cpg	936.27	J/mol×K	851.65	Joback Method
cpg	951.34	J/mol×K	879.90	Joback Method
dvisc	0.0018384	Paxs	376.05	Joback Method

dvisc	0.0007881	Paxs	431.78	Joback Method
dvisc	0.0004101	Paxs	487.50	Joback Method
dvisc	0.0002440	Paxs	543.23	Joback Method
dvisc	0.0001599	Paxs	598.96	Joback Method
dvisc	0.0001126	Paxs	654.68	Joback Method
dvisc	0.0000838	Paxs	710.41	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=U340277&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U340277&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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