

# cis-10-Nonadecenoic acid

<b>Inchi:</b>	InChI=1S/C19H36O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19(20)21/h9-10H,2
<b>InchiKey:</b>	BBOWBNGUEWHNQZ-KTKRTIGZSA-N
<b>Formula:</b>	C19H36O2
<b>SMILES:</b>	CCCCCCCCC=CCCCCCCCC(=O)O
<b>Mol. weight [g/mol]:</b>	296.49
<b>CAS:</b>	73033-09-7

## Physical Properties

Property code	Value	Unit	Source
gf	-76.42	kJ/mol	Joback Method
hf	-583.08	kJ/mol	Joback Method
hfus	50.85	kJ/mol	Joback Method
hvap	81.27	kJ/mol	Joback Method
log10ws	-6.73		Crippen Method
logp	6.499		Crippen Method
mcvol	281.710	ml/mol	McGowan Method
pc	1244.21	kPa	Joback Method
rinpol	2256.00		NIST Webbook
rinpol	2256.00		NIST Webbook
tb	784.33	K	Joback Method
tc	962.84	K	Joback Method
tf	409.56	K	Joback Method
vc	1.105	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	870.16	J/molxK	784.33	Joback Method
cpg	887.19	J/molxK	814.08	Joback Method
cpg	903.39	J/molxK	843.83	Joback Method
cpg	918.82	J/molxK	873.59	Joback Method
cpg	933.51	J/molxK	903.34	Joback Method
cpg	947.51	J/molxK	933.09	Joback Method
cpg	960.85	J/molxK	962.84	Joback Method

dvisc	0.0019556	Paxs	409.56	Joback Method
dvisc	0.0005299	Paxs	472.02	Joback Method
dvisc	0.0001948	Paxs	534.48	Joback Method
dvisc	0.0000883	Paxs	596.94	Joback Method
dvisc	0.0000465	Paxs	659.41	Joback Method
dvisc	0.0000274	Paxs	721.87	Joback Method
dvisc	0.0000175	Paxs	784.33	Joback Method

## Sources

<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=C73033097&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C73033097&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>mvol:</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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