

# Undec-10-ynoic acid, octyl ester

<b>Inchi:</b>	InChI=1S/C19H34O2/c1-3-5-7-9-11-12-13-15-17-19(20)21-18-16-14-10-8-6-4-2/h1H,4-18H
<b>InchiKey:</b>	NFJBMLOIHOFIOS-UHFFFAOYSA-N
<b>Formula:</b>	C19H34O2
<b>SMILES:</b>	C#CCCCCCCCC(=O)OCCCCCCCC
<b>Mol. weight [g/mol]:</b>	294.47

## Physical Properties

Property code	Value	Unit	Source
gf	98.25	kJ/mol	Joback Method
hf	-388.39	kJ/mol	Joback Method
hfus	50.73	kJ/mol	Joback Method
hvap	66.90	kJ/mol	Joback Method
log10ws	-6.43		Crippen Method
logp	5.644		Crippen Method
mcvol	277.410	ml/mol	McGowan Method
pc	1232.88	kPa	Joback Method
rinpol	2011.00		NIST Webbook
rinpol	2011.00		NIST Webbook
tb	700.53	K	Joback Method
tc	874.48	K	Joback Method
tf	423.02	K	Joback Method
vc	1.085	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	798.07	J/mol×K	700.53	Joback Method
cpg	816.36	J/mol×K	729.52	Joback Method
cpg	833.80	J/mol×K	758.51	Joback Method
cpg	850.42	J/mol×K	787.51	Joback Method
cpg	866.23	J/mol×K	816.50	Joback Method
cpg	881.28	J/mol×K	845.49	Joback Method
cpg	895.57	J/mol×K	874.48	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=U406161&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406161&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas 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>rinpola:</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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