

# Undec-10-ynoic acid, pentyl ester

<b>Inchi:</b>	InChI=1S/C16H28O2/c1-3-5-7-8-9-10-11-12-14-16(17)18-15-13-6-4-2/h1H,4-15H2,2H3
<b>InchiKey:</b>	HFRFJCGGYQZDME-UHFFFAOYSA-N
<b>Formula:</b>	C16H28O2
<b>SMILES:</b>	C#CCCCCCCCC(=O)OCCCCC
<b>Mol. weight [g/mol]:</b>	252.39

## Physical Properties

Property code	Value	Unit	Source
gf	72.99	kJ/mol	Joback Method
hf	-326.47	kJ/mol	Joback Method
hfus	42.96	kJ/mol	Joback Method
hvap	60.22	kJ/mol	Joback Method
log10ws	-5.18		Crippen Method
logp	4.474		Crippen Method
mvol	235.140	ml/mol	McGowan Method
pc	1525.88	kPa	Joback Method
rinpol	2512.00		NIST Webbook
rinpol	2512.00		NIST Webbook
tb	631.89	K	Joback Method
tc	806.35	K	Joback Method
tf	389.21	K	Joback Method
vc	0.917	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	630.03	J/mol×K	631.89	Joback Method
cpg	647.03	J/mol×K	660.97	Joback Method
cpg	663.28	J/mol×K	690.04	Joback Method
cpg	678.79	J/mol×K	719.12	Joback Method
cpg	693.59	J/mol×K	748.19	Joback Method
cpg	707.68	J/mol×K	777.27	Joback Method
cpg	721.10	J/mol×K	806.35	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406166&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406166&amp;Units=SI</a>
<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>

# 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>hvp:</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>rinp:</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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