

# 3-Methoxybutyl undecanoate

<b>Inchi:</b>	InChI=1S/C16H32O3/c1-4-5-6-7-8-9-10-11-12-16(17)19-14-13-15(2)18-3/h15H,4-14H2,1
<b>InchiKey:</b>	OZVNZRAZEMUUFA-UHFFFAOYSA-N
<b>Formula:</b>	C16H32O3
<b>SMILES:</b>	CCCCCCCCC(=O)OCCC(C)OC
<b>Mol. weight [g/mol]:</b>	272.42

## Physical Properties

Property code	Value	Unit	Source
gf	-257.52	kJ/mol	Joback Method
hf	-755.87	kJ/mol	Joback Method
hfus	37.65	kJ/mol	Joback Method
hvap	62.39	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	4.485		Crippen Method
mcvol	249.610	ml/mol	McGowan Method
pc	1354.63	kPa	Joback Method
rinsol	1823.00		NIST Webbook
tb	663.75	K	Joback Method
tc	833.87	K	Joback Method
tf	349.47	K	Joback Method
vc	0.968	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	707.13	J/molxK	663.75	Joback Method
cpg	789.07	J/molxK	805.52	Joback Method
cpg	774.21	J/molxK	777.17	Joback Method
cpg	758.59	J/molxK	748.81	Joback Method
cpg	742.21	J/molxK	720.46	Joback Method
cpg	725.06	J/molxK	692.10	Joback Method
cpg	803.19	J/molxK	833.87	Joback Method
dvisc	0.0000876	Paxs	663.75	Joback Method
dvisc	0.0001186	Paxs	611.37	Joback Method

dvisc	0.0001699	Paxs	558.99	Joback Method
dvisc	0.0002622	Paxs	506.61	Joback Method
dvisc	0.0004471	Paxs	454.23	Joback Method
dvisc	0.0008764	Paxs	401.85	Joback Method
dvisc	0.0021019	Paxs	349.47	Joback Method

## Sources

<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=R541067&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R541067&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>

## 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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