

# Methyl 3-methoxydodecanoate

<b>Inchi:</b>	InChI=1S/C14H28O3/c1-4-5-6-7-8-9-10-11-13(16-2)12-14(15)17-3/h13H,4-12H2,1-3H3
<b>InchiKey:</b>	AHHDYOFPDJHYIO-UHFFFAOYSA-N
<b>Formula:</b>	C14H28O3
<b>SMILES:</b>	CCCCCCCCC(CC(=O)OC)OC
<b>Mol. weight [g/mol]:</b>	244.37

## Physical Properties

Property code	Value	Unit	Source
gf	-274.36	kJ/mol	Joback Method
hf	-714.59	kJ/mol	Joback Method
hfus	32.47	kJ/mol	Joback Method
hvap	57.94	kJ/mol	Joback Method
log10ws	-3.74		Crippen Method
logp	3.705		Crippen Method
mcvol	221.430	ml/mol	McGowan Method
pc	1568.47	kPa	Joback Method
rinpol	1644.00		NIST Webbook
rinpol	1644.00		NIST Webbook
tb	617.99	K	Joback Method
tc	788.61	K	Joback Method
tf	326.93	K	Joback Method
vc	0.856	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	596.87	J/molxK	617.99	Joback Method
cpg	674.74	J/molxK	760.17	Joback Method
cpg	660.54	J/molxK	731.74	Joback Method
cpg	645.65	J/molxK	703.30	Joback Method
cpg	630.08	J/molxK	674.86	Joback Method
cpg	613.82	J/molxK	646.43	Joback Method
cpg	688.27	J/molxK	788.61	Joback Method
dvisc	0.0001121	Paxs	617.99	Joback Method

dvisc	0.0001509	Paxs	569.48	Joback Method
dvisc	0.0002147	Paxs	520.97	Joback Method
dvisc	0.0003285	Paxs	472.46	Joback Method
dvisc	0.0005538	Paxs	423.95	Joback Method
dvisc	0.0010686	Paxs	375.44	Joback Method
dvisc	0.0025063	Paxs	326.93	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=U412779&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U412779&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>

## 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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