

# 1-Methyl-2-methoxyethyl caprylate

<b>Inchi:</b>	InChI=1S/C12H24O3/c1-4-5-6-7-8-9-12(13)15-11(2)10-14-3/h11H,4-10H2,1-3H3
<b>InchiKey:</b>	GPYJTDKJPKCXSU-UHFFFAOYSA-N
<b>Formula:</b>	C12H24O3
<b>SMILES:</b>	CCCCCCCC(=O)OC(C)COC
<b>Mol. weight [g/mol]:</b>	216.32

## Physical Properties

Property code	Value	Unit	Source
gf	-291.20	kJ/mol	Joback Method
hf	-673.31	kJ/mol	Joback Method
hfus	27.29	kJ/mol	Joback Method
hvap	53.48	kJ/mol	Joback Method
log10ws	-2.91		Crippen Method
logp	2.925		Crippen Method
mcvol	193.250	ml/mol	McGowan Method
pc	1837.26	kPa	Joback Method
rinsol	1405.00		NIST Webbook
tb	572.23	K	Joback Method
tc	744.65	K	Joback Method
tf	304.39	K	Joback Method
vc	0.744	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	492.37	J/molxK	572.23	Joback Method
cpg	565.17	J/molxK	715.92	Joback Method
cpg	551.82	J/molxK	687.18	Joback Method
cpg	537.87	J/molxK	658.44	Joback Method
cpg	523.31	J/molxK	629.70	Joback Method
cpg	508.15	J/molxK	600.97	Joback Method
cpg	577.91	J/molxK	744.65	Joback Method
dvisc	0.0001405	Paxs	572.23	Joback Method
dvisc	0.0001880	Paxs	527.59	Joback Method

dvisc	0.0002654	Paxs	482.95	Joback Method
dvisc	0.0004020	Paxs	438.31	Joback Method
dvisc	0.0006690	Paxs	393.67	Joback Method
dvisc	0.0012682	Paxs	349.03	Joback Method
dvisc	0.0029000	Paxs	304.39	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=R540113&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540113&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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