

# 2-Methoxyethyl pentanoate

<b>Inchi:</b>	InChI=1S/C8H16O3/c1-3-4-5-8(9)11-7-6-10-2/h3-7H2,1-2H3
<b>InchiKey:</b>	ULZNQHVNWQEFFK-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O3
<b>SMILES:</b>	CCCCC(=O)OCCOC
<b>Mol. weight [g/mol]:</b>	160.21

## Physical Properties

Property code	Value	Unit	Source
gf	-322.44	kJ/mol	Joback Method
hf	-585.47	kJ/mol	Joback Method
hfus	20.45	kJ/mol	Joback Method
hvap	44.97	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	1.366		Crippen Method
mcvol	136.890	ml/mol	McGowan Method
pc	2611.07	kPa	Joback Method
rinpol	1086.00		NIST Webbook
rinpol	1086.00		NIST Webbook
tb	481.15	K	Joback Method
tc	655.74	K	Joback Method
tf	274.31	K	Joback Method
vc	0.525	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.83	J/molxK	481.15	Joback Method
cpg	315.90	J/molxK	510.25	Joback Method
cpg	327.58	J/molxK	539.35	Joback Method
cpg	338.89	J/molxK	568.45	Joback Method
cpg	349.80	J/molxK	597.55	Joback Method
cpg	360.32	J/molxK	626.64	Joback Method
cpg	370.44	J/molxK	655.74	Joback Method
dvisc	0.0024417	Paxs	274.31	Joback Method

dvisc	0.0012972	Paxs	308.78	Joback Method
dvisc	0.0007825	Paxs	343.26	Joback Method
dvisc	0.0005177	Paxs	377.73	Joback Method
dvisc	0.0003669	Paxs	412.20	Joback Method
dvisc	0.0002743	Paxs	446.68	Joback Method
dvisc	0.0002138	Paxs	481.15	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U367000&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U367000&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>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

Latest version available from:

<https://www.chemeo.com/cid/88-264-2/2-Methoxyethyl-pentanoate.pdf>

Generated by Cheméo on 2024-04-27 03:14:11.104135242 +0000 UTC m=+16476900.024712553.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.