

# 2-Methoxyethyl heptanoate

<b>Inchi:</b>	InChI=1S/C10H20O3/c1-3-4-5-6-7-10(11)13-9-8-12-2/h3-9H2,1-2H3
<b>InchiKey:</b>	QVEARNCDIUCHTQ-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O3
<b>SMILES:</b>	CCCCCCC(=O)OCCOC
<b>Mol. weight [g/mol]:</b>	188.26

## Physical Properties

Property code	Value	Unit	Source
gf	-305.60	kJ/mol	Joback Method
hf	-626.75	kJ/mol	Joback Method
hfus	25.63	kJ/mol	Joback Method
hvap	49.42	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	2.146		Crippen Method
mcvol	165.070	ml/mol	McGowan Method
pc	2165.35	kPa	Joback Method
rinpol	1281.00		NIST Webbook
tb	526.91	K	Joback Method
tc	698.72	K	Joback Method
tf	296.85	K	Joback Method
vc	0.637	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.21	J/molxK	526.91	Joback Method
cpg	408.16	J/molxK	555.55	Joback Method
cpg	421.63	J/molxK	584.18	Joback Method
cpg	434.61	J/molxK	612.82	Joback Method
cpg	447.09	J/molxK	641.45	Joback Method
cpg	459.09	J/molxK	670.09	Joback Method
cpg	470.59	J/molxK	698.72	Joback Method
dvisc	0.0023638	Paxs	296.85	Joback Method
dvisc	0.0012078	Paxs	335.19	Joback Method

dvisc	0.0007084	Paxs	373.54	Joback Method
dvisc	0.0004589	Paxs	411.88	Joback Method
dvisc	0.0003200	Paxs	450.22	Joback Method
dvisc	0.0002362	Paxs	488.57	Joback Method
dvisc	0.0001822	Paxs	526.91	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=U367040&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U367040&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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