

# Menthyl formate

Inchi:	InChI=1S/C11H20O2/c1-8(2)10-5-4-9(3)6-11(10)13-7-12/h7-11H,4-6H2,1-3H3/t9-,10+,11+
InchiKey:	XEYZAKCJAFSLGZ-OUAUKWLOSA-N
Formula:	C11H20O2
SMILES:	CC1CCC(C(C)C)C(OC=O)C1
Mol. weight [g/mol]:	184.28
CAS:	2230-90-2

## Physical Properties

Property code	Value	Unit	Source
gf	-156.19	kJ/mol	Joback Method
hf	-479.81	kJ/mol	Joback Method
hfus	18.18	kJ/mol	Joback Method
hvap	48.63	kJ/mol	Joback Method
log10ws	-2.57		Crippen Method
logp	2.620		Crippen Method
mcvol	162.430	ml/mol	McGowan Method
pc	2333.78	kPa	Joback Method
tb	531.93	K	Joback Method
tc	733.39	K	Joback Method
tf	261.86	K	Joback Method
vc	0.612	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.68	J/molxK	531.93	Joback Method
cpg	425.06	J/molxK	565.51	Joback Method
cpg	443.53	J/molxK	599.08	Joback Method
cpg	461.10	J/molxK	632.66	Joback Method
cpg	477.76	J/molxK	666.24	Joback Method
cpg	493.52	J/molxK	699.82	Joback Method
cpg	508.39	J/molxK	733.39	Joback Method
dvisc	0.0036046	Paxs	261.86	Joback Method
dvisc	0.0017135	Paxs	306.87	Joback Method

dvisc	0.0009852	Paxs	351.88	Joback Method
dvisc	0.0006423	Paxs	396.89	Joback Method
dvisc	0.0004568	Paxs	441.91	Joback Method
dvisc	0.0003460	Paxs	486.92	Joback Method
dvisc	0.0002747	Paxs	531.93	Joback Method

## Sources

<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=C2230902&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2230902&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>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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