

# 5-Hexenoic acid, methyl ester

<b>Other names:</b>	Methyl 5-hexenoate Methyl ester of 5-hexenoic acid
<b>Inchi:</b>	InChI=1S/C7H12O2/c1-3-4-5-6-7(8)9-2/h3H,1,4-6H2,2H3
<b>InchiKey:</b>	ASKDFGVMJZMYEM-UHFFFAOYSA-N
<b>Formula:</b>	C7H12O2
<b>SMILES:</b>	C=CCCCCC(=O)OC
<b>Mol. weight [g/mol]:</b>	128.17
<b>CAS:</b>	2396-80-7

## Physical Properties

Property code	Value	Unit	Source
gf	-138.02	kJ/mol	Joback Method
hf	-307.18	kJ/mol	Joback Method
hfus	15.39	kJ/mol	Joback Method
hvap	39.66	kJ/mol	Joback Method
log10ws	-1.47		Crippen Method
logp	1.516		Crippen Method
mcvol	112.630	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
rinpola	894.00		NIST Webbook
rinpola	894.00		NIST Webbook
rinpola	894.00		NIST Webbook
ripola	1226.00		NIST Webbook
ripola	1226.00		NIST Webbook
ripola	1223.00		NIST Webbook
ripola	1224.00		NIST Webbook
ripola	1223.00		NIST Webbook
tb	432.53	K	Joback Method
tc	612.55	K	Joback Method
tf	239.05	K	Joback Method
vc	0.432	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	222.85	J/mol×K	432.53	Joback Method
cpg	233.32	J/mol×K	462.53	Joback Method
cpg	243.41	J/mol×K	492.54	Joback Method
cpg	253.12	J/mol×K	522.54	Joback Method
cpg	262.44	J/mol×K	552.54	Joback Method
cpg	271.40	J/mol×K	582.54	Joback Method
cpg	279.98	J/mol×K	612.55	Joback Method
dvisc	0.0028577	Paxs	239.05	Joback Method
dvisc	0.0015177	Paxs	271.30	Joback Method
dvisc	0.0009221	Paxs	303.54	Joback Method
dvisc	0.0006165	Paxs	335.79	Joback Method
dvisc	0.0004423	Paxs	368.04	Joback Method
dvisc	0.0003347	Paxs	400.28	Joback Method
dvisc	0.0002641	Paxs	432.53	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2396807&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2396807&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>rinpola:</b>	Non-polar retention indices
<b>ripola:</b>	Polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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