

# E-1-Methoxy-3-hexene

<b>Other names:</b>	(3E)-1-Methoxy-3-hexene (E)-3-Hexenyl methyl ether trans-1-Methoxy-3-hexene
<b>Inchi:</b>	InChI=1S/C7H14O/c1-3-4-5-6-7-8-2/h4-5H,3,6-7H2,1-2H3/b5-4+
<b>InchiKey:</b>	KUPODEXLSGEWFR-SNAWJCMRSA-N
<b>Formula:</b>	C7H14O
<b>SMILES:</b>	CCC=CCCOC
<b>Mol. weight [g/mol]:</b>	114.19
<b>CAS:</b>	121441-40-5

## Physical Properties

Property code	Value	Unit	Source
gf	-16.72	kJ/mol	Joback Method
hf	-202.81	kJ/mol	Joback Method
hfus	15.28	kJ/mol	Joback Method
hvap	33.54	kJ/mol	Joback Method
log10ws	-1.69		Crippen Method
logp	1.989		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2906.11	kPa	Joback Method
rinpol	810.00		NIST Webbook
rinpol	810.00		NIST Webbook
ripol	974.00		NIST Webbook
tb	386.14	K	Joback Method
tc	558.99	K	Joback Method
tf	185.80	K	Joback Method
vc	0.425	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.98	J/mol×K	386.14	Joback Method
cpg	256.48	J/mol×K	530.18	Joback Method
cpg	246.77	J/mol×K	501.37	Joback Method

cpg	236.68	J/molxK	472.57	Joback Method
cpg	226.18	J/molxK	443.76	Joback Method
cpg	215.29	J/molxK	414.95	Joback Method
cpg	265.82	J/molxK	558.99	Joback Method
dvisc	0.0001834	Paxs	386.14	Joback Method
dvisc	0.0002383	Paxs	352.75	Joback Method
dvisc	0.0003271	Paxs	319.36	Joback Method
dvisc	0.0004833	Paxs	285.97	Joback Method
dvisc	0.0007918	Paxs	252.58	Joback Method
dvisc	0.0015077	Paxs	219.19	Joback Method
dvisc	0.0036187	Paxs	185.80	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C121441405&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C121441405&amp;Units=SI</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>ripol:</b>	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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