

# Ether, 6-methylheptyl vinyl

<b>Other names:</b>	Heptane, 1-(ethenyloxy)-6-methyl- Ether, isooctyl vinyl
<b>Inchi:</b>	InChI=1S/C10H20O/c1-4-11-9-7-5-6-8-10(2)3/h4,10H,1,5-9H2,2-3H3
<b>InchiKey:</b>	SHHYVKSJGBTTLX-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O
<b>SMILES:</b>	<chem>C=COCCCCC(C)C</chem>
<b>Mol. weight [g/mol]:</b>	156.27
<b>CAS:</b>	10573-35-0

## Physical Properties

Property code	Value	Unit	Source
gf	13.72	kJ/mol	Joback Method
hf	-261.80	kJ/mol	Joback Method
hfus	18.04	kJ/mol	Joback Method
hvap	39.21	kJ/mol	Joback Method
log10ws	-3.20		Crippen Method
logp	3.363		Crippen Method
mcvol	153.330	ml/mol	McGowan Method
pc	2173.43	kPa	Joback Method
tb	448.90 ± 2.00	K	NIST Webbook
tc	616.05	K	Joback Method
tf	207.93	K	Joback Method
vc	0.589	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.63	J/mol×K	446.86	Joback Method
cpg	340.29	J/mol×K	475.06	Joback Method
cpg	354.41	J/mol×K	503.26	Joback Method
cpg	368.01	J/mol×K	531.46	Joback Method
cpg	381.10	J/mol×K	559.65	Joback Method
cpg	393.67	J/mol×K	587.85	Joback Method
cpg	405.76	J/mol×K	616.05	Joback Method

dvisc	0.0061809	Paxs	207.93	Joback Method
dvisc	0.0021823	Paxs	247.75	Joback Method
dvisc	0.0010280	Paxs	287.57	Joback Method
dvisc	0.0005816	Paxs	327.39	Joback Method
dvisc	0.0003723	Paxs	367.22	Joback Method
dvisc	0.0002600	Paxs	407.04	Joback Method
dvisc	0.0001936	Paxs	446.86	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=C10573350&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10573350&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.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

Latest version available from:

<https://www.cheméo.com/cid/18-373-8/Ether-6-methylheptyl-vinyl.pdf>

Generated by Cheméo on 2024-04-19 22:28:18.348154303 +0000 UTC m=+15854947.268731615.

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