

# 3-Hepten-1-ol, (E)-

<b>Other names:</b>	trans-3-Hepten-1-ol (E)-hept-3-en-1-ol
<b>Inchi:</b>	InChI=1S/C7H14O/c1-2-3-4-5-6-7-8/h4-5,8H,2-3,6-7H2,1H3/b5-4+
<b>InchiKey:</b>	SDZQUCJFTUULJX-SNAWJCMRSA-N
<b>Formula:</b>	C7H14O
<b>SMILES:</b>	CCCC=CCCO
<b>Mol. weight [g/mol]:</b>	114.19
<b>CAS:</b>	2108-05-6

## Physical Properties

Property code	Value	Unit	Source
gf	-48.54	kJ/mol	Joback Method
hf	-222.82	kJ/mol	Joback Method
hfus	18.18	kJ/mol	Joback Method
hvap	47.81	kJ/mol	Joback Method
log10ws	-1.87		Crippen Method
logp	1.725		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	3280.28	kPa	Joback Method
tb	455.90	K	Joback Method
tc	623.65	K	Joback Method
tf	224.39	K	Joback Method
vc	0.426	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.48	J/mol×K	455.90	Joback Method
cpg	241.71	J/mol×K	483.86	Joback Method
cpg	251.49	J/mol×K	511.82	Joback Method
cpg	260.84	J/mol×K	539.78	Joback Method
cpg	269.79	J/mol×K	567.74	Joback Method
cpg	278.34	J/mol×K	595.69	Joback Method
cpg	286.52	J/mol×K	623.65	Joback Method

dvisc	0.0712349	Paxs	224.39	Joback Method
dvisc	0.0124675	Paxs	262.97	Joback Method
dvisc	0.0034085	Paxs	301.56	Joback Method
dvisc	0.0012506	Paxs	340.14	Joback Method
dvisc	0.0005629	Paxs	378.73	Joback Method
dvisc	0.0002936	Paxs	417.31	Joback Method
dvisc	0.0001710	Paxs	455.90	Joback Method

## Sources

<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=C2108056&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2108056&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>

## 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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