

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

<b>Other names:</b>	cis-3-Hepten-1-ol (Z)-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-PLNGDYQASA-N
<b>Formula:</b>	C7H14O
<b>SMILES:</b>	CCCC=CCCO
<b>Mol. weight [g/mol]:</b>	114.19
<b>CAS:</b>	1708-81-2

## 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
rinpol	988.00		NIST Webbook
rinpol	989.00		NIST Webbook
rinpol	959.00		NIST Webbook
ripol	1491.00		NIST Webbook
ripol	1509.00		NIST Webbook
ripol	1491.00		NIST Webbook
ripol	1490.00		NIST Webbook
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
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cpg	231.48	J/molxK	455.90	Joback Method
cpg	241.71	J/molxK	483.86	Joback Method
cpg	251.49	J/molxK	511.82	Joback Method
cpg	260.84	J/molxK	539.78	Joback Method
cpg	269.79	J/molxK	567.74	Joback Method
cpg	278.34	J/molxK	595.69	Joback Method
cpg	286.52	J/molxK	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>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=C1708812&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1708812&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>

## 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
<b>tb:</b>	Normal Boiling Point Temperature

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

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