

# 1-Hepten-4-ol

<b>Other names:</b>	hept-1-en-4-ol
<b>Inchi:</b>	InChI=1S/C7H14O/c1-3-5-7(8)6-4-2/h3,7-8H,1,4-6H2,2H3
<b>InchiKey:</b>	AQTUHHJABKZECGA-UHFFFAOYSA-N
<b>Formula:</b>	C7H14O
<b>SMILES:</b>	C=CCC(O)CCC
<b>Mol. weight [g/mol]:</b>	114.19
<b>CAS:</b>	3521-91-3

## Physical Properties

Property code	Value	Unit	Source
gf	-43.36	kJ/mol	Joback Method
hf	-219.89	kJ/mol	Joback Method
hfus	13.17	kJ/mol	Joback Method
hvap	46.80	kJ/mol	Joback Method
log10ws	-1.98		Crippen Method
logp	1.723		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	3272.78	kPa	Joback Method
ripol	1495.00		NIST Webbook
ripol	1585.00		NIST Webbook
tb	447.98	K	Joback Method
tc	614.85	K	Joback Method
tf	212.71	K	Joback Method
vc	0.421	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.57	J/molxK	447.98	Joback Method
cpg	278.94	J/molxK	587.04	Joback Method
cpg	270.26	J/molxK	559.23	Joback Method
cpg	261.19	J/molxK	531.42	Joback Method
cpg	251.73	J/molxK	503.60	Joback Method
cpg	241.86	J/molxK	475.79	Joback Method

cpg	287.25	J/mol×K	614.85	Joback Method
dvisc	0.0002056	Paxs	447.98	Joback Method
dvisc	0.0003636	Paxs	408.77	Joback Method
dvisc	0.0007257	Paxs	369.56	Joback Method
dvisc	0.0017062	Paxs	330.35	Joback Method
dvisc	0.0050507	Paxs	291.13	Joback Method
dvisc	0.0209602	Paxs	251.92	Joback Method
dvisc	0.1469952	Paxs	212.71	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.37383e+01
Coeff. B	-3.57362e+03
Coeff. C	-6.00370e+01
Temperature range (K), min.	299.15
Temperature range (K), max.	484.11

## 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=C3521913&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3521913&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>pvap:</b>	Vapor pressure
<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

Latest version available from:

<https://www.cheméo.com/cid/53-604-2/1-Hepten-4-ol.pdf>

Generated by Cheméo on 2024-04-26 08:21:04.9345692 +0000 UTC m=+16408913.855146514.

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