

# 5-Hexen-1-ol

<b>Other names:</b>	1-Hexen-6-ol 5-Hexenol Hex-5-en-1-ol
<b>Inchi:</b>	InChI=1S/C6H12O/c1-2-3-4-5-6-7/h2,7H,1,3-6H2
<b>InchiKey:</b>	UIZVMOZAXAMASY-UHFFFAOYSA-N
<b>Formula:</b>	C6H12O
<b>SMILES:</b>	C=CCCCCCO
<b>Mol. weight [g/mol]:</b>	100.16
<b>CAS:</b>	821-41-0

## Physical Properties

Property code	Value	Unit	Source
gf	-49.34	kJ/mol	Joback Method
hf	-193.97	kJ/mol	Joback Method
hfus	14.10	kJ/mol	Joback Method
hvap	60.20 ± 0.10	kJ/mol	NIST Webbook
log10ws	-1.45		Crippen Method
logp	1.335		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3628.97	kPa	Joback Method
rinpol	878.60		NIST Webbook
rinpol	820.00		NIST Webbook
rinpol	878.60		NIST Webbook
rinpol	820.00		NIST Webbook
rinpol	820.00		NIST Webbook
rinpol	858.00		NIST Webbook
rinpol	858.00		NIST Webbook
ripol	1394.00		NIST Webbook
ripol	1394.00		NIST Webbook
tb	413.00 ± 6.00	K	NIST Webbook
tc	589.74	K	Joback Method
tf	216.44	K	Joback Method
vc	0.371	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	233.28	J/molxK	562.37	Joback Method
cpg	225.72	J/molxK	535.01	Joback Method
cpg	217.84	J/molxK	507.64	Joback Method
cpg	209.63	J/molxK	480.27	Joback Method
cpg	201.07	J/molxK	452.91	Joback Method
cpg	192.15	J/molxK	425.54	Joback Method
cpg	240.53	J/molxK	589.74	Joback Method
dvisc	0.0787990	Paxs	216.44	Joback Method
dvisc	0.0002525	Paxs	425.54	Joback Method
dvisc	0.0004291	Paxs	390.69	Joback Method
dvisc	0.0008090	Paxs	355.84	Joback Method
dvisc	0.0017504	Paxs	320.99	Joback Method
dvisc	0.0045712	Paxs	286.14	Joback Method
dvisc	0.0155787	Paxs	251.29	Joback Method
hvapt	58.00 ± 0.10	kJ/mol	343.00	NIST Webbook
hvapt	55.70 ± 0.10	kJ/mol	358.00	NIST Webbook

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	352.20	K	3.30	NIST Webbook

# Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.76558e+01
Coeff. B	-4.60538e+03
Coeff. C	-5.97590e+01
Temperature range (K), min.	295.70
Temperature range (K), max.	432.83

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C821410&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C821410&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/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

# 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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/77-774-8/5-Hexen-1-ol.pdf>

Generated by Cheméo on 2024-04-26 20:59:48.490141692 +0000 UTC m=+16454437.410719004.

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