2-Hexen-1-ol, (Z)-

Other names:	(Z)-2-Hexenol
	(Z)-Hex-2-en-1-ol
	(Z)-Hex-2-ene-1-ol
	(Z)-Hex-2-enol
	Z-2-Hexen-1-ol
	cis-2-Hexen-1-ol
	cis-2-Hexenol
	cis-hex-2-en-1-ol
Inchi:	InChI=1S/C6H12O/c1-2-3-4-5-6-7/h4-5,7H,2-3,6H2,1H3/b5-4-
InchiKey:	ZCHHRLHTBGRGOT-PLNGDYQASA-N
Formula:	C6H12O
SMILES:	CCCC=CCO
Mol. weight [g/mol]:	100.16
CAS:	928-94-9

Physical Properties

Property code	Value	Unit	Source
gf	-56.96	kJ/mol	Joback Method
hf	-202.18	kJ/mol	Joback Method
hfus	15.59	kJ/mol	Joback Method
hvap	45.59	kJ/mol	Joback Method
log10ws	-1.45		Crippen Method
logp	1.335		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3673.09	kPa	Joback Method
rinpol	865.00		NIST Webbook
rinpol	856.00		NIST Webbook
rinpol	847.00		NIST Webbook
rinpol	868.00		NIST Webbook
rinpol	827.00		NIST Webbook
rinpol	856.00		NIST Webbook
rinpol	856.00		NIST Webbook
rinpol	855.00		NIST Webbook
rinpol	855.00		NIST Webbook
rinpol	855.00		NIST Webbook
rinpol	855.00		NIST Webbook
rinpol	863.00		NIST Webbook

rinpol	837.00	NIST Webbook
rinpol	845.00	NIST Webbook
rinpol	846.00	NIST Webbook
rinpol	866.00	NIST Webbook
rinpol	872.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	862.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	854.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	827.00	NIST Webbook
rinpol	855.00	NIST Webbook
rinpol	846.00	NIST Webbook
rinpol	885.70	NIST Webbook
rinpol	837.00	NIST Webbook
rinpol	850.00	NIST Webbook
rinpol	827.00	NIST Webbook
rinpol	856.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	847.00	NIST Webbook
ripol	1420.00	NIST Webbook
ripol	1405.00	NIST Webbook
ripol	1420.00	NIST Webbook
ripol	1410.00	NIST Webbook
ripol	1405.00	NIST Webbook
ripol	1380.00	NIST Webbook
ripol	1401.00	NIST Webbook
ripol	1389.00	NIST Webbook
ripol	1402.00	NIST Webbook
ripol	1410.00	NIST Webbook
ripol	1399.00	NIST Webbook
ripol	1420.00	NIST Webbook
ripol	1416.00	NIST Webbook
ripol	1416.00	NIST Webbook
ripol	1405.00	NIST Webbook
ripol	1398.00	NIST Webbook
ripol	1434.00	NIST Webbook
ripol	1441.00	NIST Webbook
ripol	1418.00	NIST Webbook
ripol	1417.00	NIST Webbook
ripol	1417.00	NIST Webbook
ripol	1417.00	NIST Webbook
ripol	1419.00	NIST Webbook
ripol	1403.00	NIST Webbook

ripol	1401.00		NIST Webbook
ripol	1397.00		NIST Webbook
ripol	1420.00		NIST Webbook
ripol	1417.00		NIST Webbook
ripol	1418.00		NIST Webbook
ripol	1397.00		NIST Webbook
ripol	1407.00		NIST Webbook
ripol	1441.00		NIST Webbook
ripol	1411.00		NIST Webbook
ripol	1423.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1423.00		NIST Webbook
ripol	1412.00		NIST Webbook
ripol	1375.00		NIST Webbook
ripol	1418.00		NIST Webbook
ripol	1416.00		NIST Webbook
ripol	1416.00		NIST Webbook
ripol	1368.00		NIST Webbook
ripol	1413.00		NIST Webbook
tb	430.20	K	NIST Webbook
tc	601.76	K	Joback Method
tf	213.12	K	Joback Method
vc	0.370	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	191.78	J/mol×K	433.02	Joback Method
cpg	233.69	J/mol×K	573.64	Joback Method
cpg	226.05	J/mol×K	545.51	Joback Method
cpg	218.06	J/mol×K	517.39	Joback Method
cpg	209.69	J/mol×K	489.27	Joback Method
cpg	200.94	J/mol×K	461.14	Joback Method
cpg	240.99	J/mol×K	601.76	Joback Method
dvisc	0.0002006	Pa×s	433.02	Joback Method
dvisc	0.0003473	Pa×s	396.37	Joback Method
dvisc	0.0006726	Pa×s	359.72	Joback Method
dvisc	0.0015133	Pa×s	323.07	Joback Method
dvisc	0.0041899	Pa×s	286.42	Joback Method
dvisc	0.0156415	Pa×s	249.77	Joback Method
dvisc	0.0918576	Pa×s	213.12	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	345.00 ± 1.00	K	2.40	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.60167e+01
Coeff. B	-4.20816e+03
Coeff. C	-6.10100e+01
Temperature range (K), min.	328.55
Temperature range (K), max.	454.10

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C928949&Units=SI

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

cpg: Ideal gas heat capacity

dvisc: Dynamic viscosity

gf: Standard Gibbs free energy of formation

hf: Enthalpy of formation at standard conditions

hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume