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

Other names:	cis-4-Hexen-1-ol
	(Z)-4-Hexen-1-ol
	(Z)-hex-4-en-1-ol
Inchi:	InChI=1S/C6H12O/c1-2-3-4-5-6-7/h2-3,7H,4-6H2,1H3/b3-2-
InchiKey:	VTIODUHBZHNXFP-IHWYPQMZSA-N
Formula:	C6H12O
SMILES:	CC=CCCCO
Mol. weight [g/mol]:	100.16
CAS:	928-91-6

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	879.00		NIST Webbook
rinpol	857.00		NIST Webbook
rinpol	882.00		NIST Webbook
rinpol	866.00		NIST Webbook
rinpol	882.00		NIST Webbook
rinpol	856.00		NIST Webbook
rinpol	879.00		NIST Webbook
ripol	1422.00		NIST Webbook
tb	433.02	K	Joback Method
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	200.94	J/mol×K	461.14	Joback Method
cpg	209.69	J/mol×K	489.27	Joback Method
cpg	218.06	J/mol×K	517.39	Joback Method
cpg	226.05	J/mol×K	545.51	Joback Method
cpg	233.69	J/mol×K	573.64	Joback Method
cpg	240.99	J/mol×K	601.76	Joback Method
dvisc	0.0918576	Pa×s	213.12	Joback Method
dvisc	0.0156415	Pa×s	249.77	Joback Method
dvisc	0.0041899	Pa×s	286.42	Joback Method
dvisc	0.0015133	Pa×s	323.07	Joback Method
dvisc	0.0006726	Pa×s	359.72	Joback Method
dvisc	0.0003473	Pa×s	396.37	Joback Method
dvisc	0.0002006	Pa×s	433.02	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C928916&Units=SI
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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume