1-Hexene, 1-iodo-, (E)-

Other names:	trans-1-Hexenyl Iodide
	trans-1-Iodo-1-Hexene
	trans-1-Iodohexene
Inchi:	InChI=1S/C6H11I/c1-2-3-4-5-6-7/h5-6H,2-4H2,1H3/b6-5+
InchiKey:	TUAPXMNNQGXDDV-AATRIKPKSA-N
Formula:	C6H11I
SMILES:	CCCCC=CI
Mol. weight [g/mol]:	210.06
CAS:	16644-98-7

Physical Properties

Property code	Value	Unit	Source
gf	137.98	kJ/mol	Joback Method
hf	26.92	kJ/mol	Joback Method
hfus	15.90	kJ/mol	Joback Method
hvap	38.28	kJ/mol	Joback Method
log10ws	-3.63		Crippen Method
logp	3.125		Crippen Method
mcvol	116.920	ml/mol	McGowan Method
pc	3213.68	kPa	Joback Method
tb	433.98	K	Joback Method
tc	644.76	K	Joback Method
tf	210.36	K	Joback Method
vc	0.440	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.53	J/mol×K	433.98	Joback Method
cpg	240.29	J/mol×K	609.63	Joback Method
cpg	232.07	J/mol×K	574.50	Joback Method
cpg	223.32	J/mol×K	539.37	Joback Method
cpg	214.00	J/mol×K	504.24	Joback Method
cpg	204.09	J/mol×K	469.11	Joback Method

cpg	248.02	J/mol×K	644.76	Joback Method
dvisc	0.0003044	Pa×s	433.98	Joback Method
dvisc	0.0003953	Pa×s	396.71	Joback Method
dvisc	0.0005419	Pa×s	359.44	Joback Method
dvisc	0.0007992	Pa×s	322.17	Joback Method
dvisc	0.0013046	Pa×s	284.90	Joback Method
dvisc	0.0024684	Pa×s	247.63	Joback Method
dvisc	0.0058545	Pa×s	210.36	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.81197e+01
Coeff. B	-4.86276e+03
Coeff. C	-6.46240e+01
Temperature range (K), min.	337.32
Temperature range (K), max.	444.28

Sources

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

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C16644987&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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume