3-Hexene, 2-methyl-, (Z)-

Other names:	cis-2-Methyl-3-hexene
	(3Z)-2-Methyl-3-hexene
	(Z)-2-Methyl-3-hexene
	(Z)-3-Hexene, 2-methyl
Inchi:	InChI=1S/C7H14/c1-4-5-6-7(2)3/h5-7H,4H2,1-3H3/b6-5-
InchiKey:	IQANHWBWTVLDTP-WAYWQWQTSA-N
Formula:	C7H14
SMILES:	CCC=CC(C)C
Mol. weight [g/mol]:	98.19
CAS:	15840-60-5

Physical Properties

Property code	Value	Unit	Source
gf	85.84	kJ/mol	Joback Method
hf	-75.87	kJ/mol	Joback Method
hfus	10.56	kJ/mol	Joback Method
hvap	34.30	kJ/mol	NIST Webbook
log10ws	-2.36		Crippen Method
logp	2.609		Crippen Method
mcvol	105.190	ml/mol	McGowan Method
pc	2986.06	kPa	Joback Method
rinpol	640.00		NIST Webbook
rinpol	667.00		NIST Webbook
rinpol	652.60		NIST Webbook
rinpol	641.50		NIST Webbook
rinpol	647.00		NIST Webbook
rinpol	653.40		NIST Webbook
rinpol	651.90		NIST Webbook
rinpol	651.90		NIST Webbook
rinpol	639.90		NIST Webbook
rinpol	641.50		NIST Webbook
rinpol	652.00		NIST Webbook
rinpol	652.00		NIST Webbook
rinpol	640.00		NIST Webbook
rinpol	645.50		NIST Webbook
rinpol	657.00		NIST Webbook
rinpol	642.00		NIST Webbook

rinpol	652.60		NIST Webbook
rinpol	653.40		NIST Webbook
rinpol	648.00		NIST Webbook
rinpol	647.00		NIST Webbook
tb	359.00 ± 1.00	K	NIST Webbook
tb	359.80 ± 1.00	K	NIST Webbook
tb	359.80 ± 1.00	K	NIST Webbook
tb	359.20	K	NIST Webbook
tc	539.72	K	Joback Method
tf	148.57	K	Joback Method
vc	0.402	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.01	J/mol×K	539.72	Joback Method
cpg	235.39	J/mol×K	510.31	Joback Method
cpg	225.33	J/mol×K	480.91	Joback Method
cpg	214.79	J/mol×K	451.50	Joback Method
cpg	203.76	J/mol×K	422.09	Joback Method
cpg	192.22	J/mol×K	392.69	Joback Method
cpg	180.16	J/mol×K	363.28	Joback Method
dvisc	0.0095853	Pa×s	148.57	Joback Method
dvisc	0.0001915	Pa×s	363.28	Joback Method
dvisc	0.0002575	Pa×s	327.50	Joback Method
dvisc	0.0003722	Pa×s	291.71	Joback Method
dvisc	0.0005963	Pa×s	255.92	Joback Method
dvisc	0.0011138	Pa×s	220.14	Joback Method
dvisc	0.0026515	Pa×s	184.35	Joback Method
hvapt	36.10	kJ/mol	322.50	NIST Webbook

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C15840605&Units=SI

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

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
hvapt:	Enthalpy of vaporization at a given temperature
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume