4-Methyl-2-hexene,c&t

Other names:	2-Hexene, 4-methyl-
	4-Methyl-2-hexene (c,t)
	4-Methyl-2-hexene
	4-methylhex-2-ene
Inchi:	InChI=1S/C7H14/c1-4-6-7(3)5-2/h4,6-7H,5H2,1-3H3
InchiKey:	MBNDKEPQUVZHCM-UHFFFAOYSA-N
Formula:	C7H14
SMILES:	CC=CC(C)CC
Mol. weight [g/mol]:	98.19
CAS:	3404-55-5

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	30.75	kJ/mol	Joback Method
log10ws	-2.36		Crippen Method
logp	2.609		Crippen Method
mcvol	105.190	ml/mol	McGowan Method
pc	2986.06	kPa	Joback Method
rinpol	661.00		NIST Webbook
rinpol	661.00		NIST Webbook
rinpol	705.00		NIST Webbook
rinpol	663.00		NIST Webbook
rinpol	663.00		NIST Webbook
tb	363.28	K	Joback Method
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	180.16	J/mol×K	363.28	Joback Method
cpg	192.22	J/mol×K	392.69	Joback Method
cpg	203.76	J/mol×K	422.09	Joback Method
cpg	214.79	J/mol×K	451.50	Joback Method
cpg	225.33	J/mol×K	480.91	Joback Method
cpg	235.39	J/mol×K	510.31	Joback Method
cpg	245.01	J/mol×K	539.72	Joback Method
dvisc	0.0095853	Pa×s	148.57	Joback Method
dvisc	0.0026515	Pa×s	184.35	Joback Method
dvisc	0.0011138	Pa×s	220.14	Joback Method
dvisc	0.0005963	Pa×s	255.92	Joback Method
dvisc	0.0003722	Pa×s	291.71	Joback Method
dvisc	0.0002575	Pa×s	327.50	Joback Method
dvisc	0.0001915	Pa×s	363.28	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C3404555&Units=SI

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
tb: Normal Boiling Point Temperature
tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume