

# (E)-2-Hexene, 3-methyl

<b>Other names:</b>	E-3-methyl-2-hexene 2-Hexene, 3-methyl-, (E)- trans-3-Methyl-2-hexene
<b>Inchi:</b>	InChI=1S/C7H14/c1-4-6-7(3)5-2/h5H,4,6H2,1-3H3/b7-5+
<b>InchiKey:</b>	JZMUUSXQSKCZNO-FNORWQNLSA-N
<b>Formula:</b>	C7H14
<b>SMILES:</b>	CC=C(C)CCC
<b>Mol. weight [g/mol]:</b>	98.19
<b>CAS:</b>	20710-38-7

## Physical Properties

Property code	Value	Unit	Source
gf	79.73	kJ/mol	Joback Method
hf	-80.38	kJ/mol	Joback Method
hfus	12.78	kJ/mol	Joback Method
hvap	35.60	kJ/mol	NIST Webbook
log10ws	-2.61		Crippen Method
logp	2.753		Crippen Method
mcvol	105.190	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
rinpol	699.50		NIST Webbook
rinpol	701.60		NIST Webbook
rinpol	709.20		NIST Webbook
rinpol	709.20		NIST Webbook
rinpol	709.00		NIST Webbook
rinpol	709.00		NIST Webbook
rinpol	709.00		NIST Webbook
rinpol	708.00		NIST Webbook
rinpol	701.60		NIST Webbook
rinpol	702.00		NIST Webbook
rinpol	704.00		NIST Webbook
rinpol	696.00		NIST Webbook
rinpol	693.00		NIST Webbook
rinpol	694.00		NIST Webbook
rinpol	695.00		NIST Webbook
rinpol	695.00		NIST Webbook
rinpol	712.00		NIST Webbook

rinpol	707.00		NIST Webbook
rinpol	709.50		NIST Webbook
rinpol	710.90		NIST Webbook
rinpol	699.90		NIST Webbook
rinpol	716.00		NIST Webbook
rinpol	703.00		NIST Webbook
rinpol	709.00		NIST Webbook
rinpol	710.00		NIST Webbook
rinpol	709.00		NIST Webbook
rinpol	709.00		NIST Webbook
rinpol	710.00		NIST Webbook
rinpol	694.00		NIST Webbook
rinpol	712.00		NIST Webbook
rinpol	694.00		NIST Webbook
ripol	750.00		NIST Webbook
ripol	739.00		NIST Webbook
ripol	750.00		NIST Webbook
tb	365.15 ± 3.00	K	NIST Webbook
tb	368.39 ± 0.30	K	NIST Webbook
tb	368.38 ± 0.20	K	NIST Webbook
tc	539.41	K	Joback Method
tf	149.61	K	Joback Method
vc	0.408	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	180.34	J/mol×K	363.60	Joback Method
cpg	192.22	J/mol×K	392.90	Joback Method
cpg	203.59	J/mol×K	422.20	Joback Method
cpg	214.47	J/mol×K	451.50	Joback Method
cpg	224.86	J/mol×K	480.80	Joback Method
cpg	234.79	J/mol×K	510.11	Joback Method
cpg	244.29	J/mol×K	539.41	Joback Method
hvapt	34.10	kJ/mol	357.50	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C20710387&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20710387&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/32-230-0/E-2-Hexene-3-methyl.pdf>

Generated by Cheméo on 2024-04-19 20:57:21.708208643 +0000 UTC m=+15849490.628785959.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.