

# 2-Octene, 3,7-dimethyl-, (Z)-

<b>Other names:</b>	(2Z)-3,7-Dimethyl-2-octene 2,6-Dimethyl 6(7)-octene (cis) 3,7-Dimethyl 2-octene, cis cis-3,7-Dimethyl-2-octene
<b>Inchi:</b>	InChI=1S/C10H20/c1-5-10(4)8-6-7-9(2)3/h5,9H,6-8H2,1-4H3/b10-5-
<b>InchiKey:</b>	ADGIRGGMVLTMJM-YHYXMXQVSA-N
<b>Formula:</b>	C10H20
<b>SMILES:</b>	CC=C(C)CCCC(C)C
<b>Mol. weight [g/mol]:</b>	140.27
<b>CAS:</b>	6874-32-4

## Physical Properties

Property code	Value	Unit	Source
gf	102.55	kJ/mol	Joback Method
hf	-147.58	kJ/mol	Joback Method
hfus	17.03	kJ/mol	Joback Method
hvap	37.50	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.779		Crippen Method
mcvol	147.460	ml/mol	McGowan Method
pc	2239.76	kPa	Joback Method
rinpol	970.00		NIST Webbook
tb	431.80	K	Joback Method
tc	609.06	K	Joback Method
tf	168.42	K	Joback Method
vc	0.571	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.23	J/molxK	431.80	Joback Method
cpg	315.85	J/molxK	461.34	Joback Method
cpg	330.80	J/molxK	490.89	Joback Method
cpg	345.08	J/molxK	520.43	Joback Method

cpg	358.72	J/mol×K	549.97	Joback Method
cpg	371.75	J/mol×K	579.52	Joback Method
cpg	384.19	J/mol×K	609.06	Joback Method

## 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=C6874324&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6874324&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>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-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

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