

# 1-Nonene, 7-methyl

<b>Other names:</b>	7-methy-1-nonene
<b>Inchi:</b>	InChI=1S/C10H20/c1-4-6-7-8-9-10(3)5-2/h4,10H,1,5-9H2,2-3H3
<b>InchiKey:</b>	ZZYJKJGZMBFFBO-UHFFFAOYSA-N
<b>Formula:</b>	C10H20
<b>SMILES:</b>	C=CCCCC(C)CC
<b>Mol. weight [g/mol]:</b>	140.27

## Physical Properties

Property code	Value	Unit	Source
gf	118.72	kJ/mol	Joback Method
hf	-129.58	kJ/mol	Joback Method
hfus	16.85	kJ/mol	Joback Method
hvap	36.80	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.779		Crippen Method
mvol	147.460	ml/mol	McGowan Method
pc	2208.29	kPa	Joback Method
rinpol	961.00		NIST Webbook
rinpol	960.00		NIST Webbook
tb	424.44	K	Joback Method
tc	593.69	K	Joback Method
tf	185.70	K	Joback Method
vc	0.571	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	299.11	J/mol×K	424.44	Joback Method
cpg	314.13	J/mol×K	452.65	Joback Method
cpg	328.55	J/mol×K	480.86	Joback Method
cpg	342.39	J/mol×K	509.07	Joback Method
cpg	355.67	J/mol×K	537.27	Joback Method
cpg	368.39	J/mol×K	565.48	Joback Method
cpg	380.58	J/mol×K	593.69	Joback Method

dvisc	0.0091831	Paxs	185.70	Joback Method
dvisc	0.0028680	Paxs	225.49	Joback Method
dvisc	0.0012699	Paxs	265.28	Joback Method
dvisc	0.0006955	Paxs	305.07	Joback Method
dvisc	0.0004376	Paxs	344.86	Joback Method
dvisc	0.0003031	Paxs	384.65	Joback Method
dvisc	0.0002249	Paxs	424.44	Joback Method

## Sources

<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=R46972&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R46972&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>mcvol:</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

Latest version available from:

<https://www.chemeo.com/cid/58-154-7/1-Nonene-7-methyl.pdf>

Generated by Cheméo on 2024-04-27 07:12:54.269341946 +0000 UTC m=+16491223.189919306.

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