

# 3-Methyl-4-nonanone

<b>Inchi:</b>	InChI=1S/C10H20O/c1-4-6-7-8-10(11)9(3)5-2/h9H,4-8H2,1-3H3
<b>InchiKey:</b>	SAXOGZBJENMQMR-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O
<b>SMILES:</b>	CCCCC(=O)C(C)CC
<b>Mol. weight [g/mol]:</b>	156.27
<b>CAS:</b>	35778-39-3

## Physical Properties

Property code	Value	Unit	Source
gf	-98.04	kJ/mol	Joback Method
hf	-367.59	kJ/mol	Joback Method
hfus	19.73	kJ/mol	Joback Method
hvap	44.21	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	3.182		Crippen Method
mcvol	153.330	ml/mol	McGowan Method
pc	2252.53	kPa	Joback Method
tb	481.63	K	Joback Method
tc	658.01	K	Joback Method
tf	237.39	K	Joback Method
vc	0.596	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	342.14	J/molxK	481.63	Joback Method
cpg	410.16	J/molxK	628.61	Joback Method
cpg	397.72	J/molxK	599.22	Joback Method
cpg	384.72	J/molxK	569.82	Joback Method
cpg	371.13	J/molxK	540.42	Joback Method
cpg	356.94	J/molxK	511.03	Joback Method
cpg	422.05	J/molxK	658.01	Joback Method
dvisc	0.0002545	Paxs	481.63	Joback Method
dvisc	0.0003417	Paxs	440.92	Joback Method

dvisc	0.0004869	Paxs	400.22	Joback Method
dvisc	0.0007520	Paxs	359.51	Joback Method
dvisc	0.0012976	Paxs	318.80	Joback Method
dvisc	0.0026268	Paxs	278.10	Joback Method
dvisc	0.0067728	Paxs	237.39	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.46214e+01
Coeff. B	-4.06318e+03
Coeff. C	-7.24910e+01
Temperature range (K), min.	355.96
Temperature range (K), max.	508.93

## 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=C35778393&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35778393&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>pvap:</b>	Vapor pressure
<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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