

# 3-Nonen-5-one

<b>Other names:</b>	Non-3-en-5-one
<b>Inchi:</b>	InChI=1S/C9H16O/c1-3-5-7-9(10)8-6-4-2/h5,7H,3-4,6,8H2,1-2H3/b7-5+
<b>InchiKey:</b>	FRMKAKWKXLDSSR-FNORWQNLSA-N
<b>Formula:</b>	C9H16O
<b>SMILES:</b>	CCC=CC(=O)CCCC
<b>Mol. weight [g/mol]:</b>	140.22
<b>CAS:</b>	82456-34-6

## Physical Properties

Property code	Value	Unit	Source
gf	-23.80	kJ/mol	Joback Method
hf	-224.45	kJ/mol	Joback Method
hfus	20.87	kJ/mol	Joback Method
hvap	42.33	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.712		Crippen Method
mcvol	134.940	ml/mol	McGowan Method
pc	2584.59	kPa	Joback Method
rinpol	1051.00		NIST Webbook
rinpol	1052.00		NIST Webbook
rinpol	1051.00		NIST Webbook
rinpol	1051.00		NIST Webbook
ripol	1372.00		NIST Webbook
ripol	1372.00		NIST Webbook
tb	463.35	K	Joback Method
tc	645.65	K	Joback Method
tf	236.04	K	Joback Method
vc	0.525	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.50	J/molxK	463.35	Joback Method
cpg	294.71	J/molxK	493.73	Joback Method

cpg	307.32	J/mol×K	524.12	Joback Method
cpg	319.33	J/mol×K	554.50	Joback Method
cpg	330.78	J/mol×K	584.89	Joback Method
cpg	341.68	J/mol×K	615.27	Joback Method
cpg	352.05	J/mol×K	645.65	Joback Method
dvisc	0.0041736	Paxs	236.04	Joback Method
dvisc	0.0018590	Paxs	273.93	Joback Method
dvisc	0.0010078	Paxs	311.81	Joback Method
dvisc	0.0006239	Paxs	349.69	Joback Method
dvisc	0.0004242	Paxs	387.58	Joback Method
dvisc	0.0003089	Paxs	425.47	Joback Method
dvisc	0.0002369	Paxs	463.35	Joback Method

## Sources

<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=C82456346&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C82456346&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>

## 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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/65-158-5/3-Nonen-5-one.pdf>

Generated by Cheméo on 2024-04-26 05:22:42.073818134 +0000 UTC m=+16398210.994395450.

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