

# 2-Nonen-4-one

<b>Other names:</b>	Non-2-en-4-one 2-Nonenone-4
<b>Inchi:</b>	InChI=1S/C9H16O/c1-3-5-6-8-9(10)7-4-2/h4,7H,3,5-6,8H2,1-2H3/b7-4+
<b>InchiKey:</b>	WTAYWTBOEQYGOG-QPJJXVBHSA-N
<b>Formula:</b>	C9H16O
<b>SMILES:</b>	CC=CC(=O)CCCC
<b>Mol. weight [g/mol]:</b>	140.22
<b>CAS:</b>	32064-72-5

## 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
ripol	1127.80		NIST Webbook
ripol	1132.00		NIST Webbook
ripol	1121.00		NIST Webbook
ripol	1140.00		NIST Webbook
ripol	1121.00		NIST Webbook
ripol	1127.80		NIST Webbook
ripol	1140.00		NIST Webbook
ripol	1489.00		NIST Webbook
ripol	1489.00		NIST Webbook
ripol	1466.00		NIST Webbook
ripol	1470.00		NIST Webbook
ripol	1452.00		NIST Webbook
ripol	1470.00		NIST Webbook
ripol	1466.00		NIST Webbook
tb	463.35	K	Joback Method
tc	645.65	K	Joback Method
tf	236.04	K	Joback Method
vc	0.525	m <sup>3</sup> /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/molxK	524.12	Joback Method
cpg	319.33	J/molxK	554.50	Joback Method
cpg	330.78	J/molxK	584.89	Joback Method
cpg	341.68	J/molxK	615.27	Joback Method
cpg	352.05	J/molxK	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>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=C32064725&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C32064725&amp;Units=SI</a>
<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>

## 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
<b>vc:</b>	Critical Volume

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