

# 4-Nonanone, 2,6,8-trimethyl-

<b>Other names:</b>	2,6,8-Trimethyl-4-nonanone 2,6,8-trimethylnonan-4-one
<b>Inchi:</b>	InChI=1S/C12H24O/c1-9(2)6-11(5)8-12(13)7-10(3)4/h9-11H,6-8H2,1-5H3
<b>InchiKey:</b>	GFWVDQCGGDBTBS-UHFFFAOYSA-N
<b>Formula:</b>	C12H24O
<b>SMILES:</b>	CC(C)CC(=O)CC(C)CC(C)C
<b>Mol. weight [g/mol]:</b>	184.32
<b>CAS:</b>	123-18-2

## Physical Properties

Property code	Value	Unit	Source
gf	-86.08	kJ/mol	Joback Method
hf	-419.43	kJ/mol	Joback Method
hfus	17.87	kJ/mol	Joback Method
hvap	47.89	kJ/mol	Joback Method
log10ws	-3.40		Crippen Method
logp	3.674		Crippen Method
mvol	181.510	ml/mol	McGowan Method
pc	1918.62	kPa	Joback Method
tb	526.51	K	Joback Method
tc	706.79	K	Joback Method
tf	229.93	K	Joback Method
vc	0.696	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	436.97	J/molxK	526.51	Joback Method
cpg	454.06	J/molxK	556.56	Joback Method
cpg	470.39	J/molxK	586.60	Joback Method
cpg	485.99	J/molxK	616.65	Joback Method
cpg	500.88	J/molxK	646.70	Joback Method
cpg	515.07	J/molxK	676.75	Joback Method
cpg	528.58	J/molxK	706.79	Joback Method

dvisc	0.0159580	Paxs	229.93	Joback Method
dvisc	0.0039939	Paxs	279.36	Joback Method
dvisc	0.0015160	Paxs	328.79	Joback Method
dvisc	0.0007413	Paxs	378.22	Joback Method
dvisc	0.0004276	Paxs	427.65	Joback Method
dvisc	0.0002765	Paxs	477.08	Joback Method
dvisc	0.0001940	Paxs	526.51	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=C123182&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C123182&amp;Units=SI</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>

## 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>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/46-923-6/4-Nonanone-2-6-8-trimethyl.pdf>

Generated by Cheméo on 2024-04-26 20:59:39.512346741 +0000 UTC m=+16454428.432924063.

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