

# Fenchone

<b>Other names:</b>	Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl- 2-Norbornanone, 1,3,3-trimethyl- 1,3,3-Trimethyl-2-norbornanone 1,3,3-Trimethylbicyclo[2.2.1]heptan-2-one 1,3,3-Trimethylnorcamphor Bicyclo[2.2.1]heptane-2-one,1,3,3-trimethyl Fenchon 1,3,3-Trimethyl-2-norcamphanone dl-Fenchone NSC 122687 (.+/-)-Fenchone NSC 8896 3,3-dimethyl-8,9-dinorbornan-2-one l-fenchone
<b>Inchi:</b>	InChI=1S/C10H16O/c1-9(2)7-4-5-10(3,6-7)8(9)11/h7H,4-6H2,1-3H3
<b>InchiKey:</b>	LHXDLQBQYFFVNW-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	CC12CCC(C1)C(C)(C)C2=O
<b>Mol. weight [g/mol]:</b>	152.23
<b>CAS:</b>	126-21-6

## Physical Properties

Property code	Value	Unit	Source
gf	1.44	kJ/mol	Joback Method
hf	-237.85	kJ/mol	Joback Method
hfus	3.81	kJ/mol	Joback Method
hvap	39.49	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	2.402		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	3082.99	kPa	Joback Method
rinpol	1067.00		NIST Webbook
rinpol	1064.00		NIST Webbook
rinpol	1099.00		NIST Webbook
rinpol	1087.00		NIST Webbook
rinpol	1093.00		NIST Webbook
rinpol	1073.00		NIST Webbook

rinpol	1075.00	NIST Webbook
rinpol	1084.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	181.31	NIST Webbook
rinpol	1077.00	NIST Webbook
rinpol	1067.00	NIST Webbook
rinpol	1080.00	NIST Webbook
rinpol	1068.00	NIST Webbook
rinpol	1058.00	NIST Webbook
rinpol	1072.00	NIST Webbook
rinpol	1050.00	NIST Webbook
rinpol	1067.00	NIST Webbook
rinpol	1077.00	NIST Webbook
rinpol	1080.00	NIST Webbook
rinpol	1071.00	NIST Webbook
rinpol	1090.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1085.00	NIST Webbook
rinpol	1090.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1065.00	NIST Webbook
rinpol	1089.00	NIST Webbook
rinpol	1050.00	NIST Webbook
rinpol	1067.00	NIST Webbook
rinpol	1083.00	NIST Webbook
rinpol	1072.00	NIST Webbook
rinpol	1072.00	NIST Webbook
rinpol	1075.00	NIST Webbook
rinpol	1072.00	NIST Webbook
rinpol	1076.00	NIST Webbook
rinpol	1067.00	NIST Webbook
rinpol	1080.00	NIST Webbook
rinpol	1050.00	NIST Webbook
rinpol	1085.00	NIST Webbook
rinpol	1080.00	NIST Webbook
rinpol	1068.00	NIST Webbook
rinpol	1086.00	NIST Webbook
rinpol	1069.00	NIST Webbook
rinpol	1058.00	NIST Webbook
rinpol	1084.10	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1084.00	NIST Webbook

rinpol	1090.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1070.00	NIST Webbook
rinpol	1080.00	NIST Webbook
rinpol	1102.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1097.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1067.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1066.00	NIST Webbook
rinpol	1086.00	NIST Webbook
rinpol	1069.00	NIST Webbook
rinpol	1069.00	NIST Webbook
rinpol	1067.00	NIST Webbook
rinpol	1066.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1095.00	NIST Webbook
rinpol	1080.00	NIST Webbook
rinpol	1066.00	NIST Webbook
rinpol	1066.00	NIST Webbook
rinpol	1071.00	NIST Webbook
rinpol	1078.00	NIST Webbook
rinpol	1066.00	NIST Webbook
rinpol	1080.40	NIST Webbook
rinpol	1086.00	NIST Webbook
rinpol	1060.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1080.00	NIST Webbook
rinpol	1072.00	NIST Webbook
rinpol	1072.00	NIST Webbook
rinpol	1092.00	NIST Webbook
rinpol	1092.00	NIST Webbook
rinpol	1106.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1071.00	NIST Webbook
rinpol	1065.00	NIST Webbook
rinpol	1069.00	NIST Webbook
rinpol	1090.00	NIST Webbook
rinpol	1084.00	NIST Webbook

rinpol	1090.00	NIST Webbook
rinpol	1091.00	NIST Webbook
rinpol	1069.00	NIST Webbook
rinpol	1063.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1085.00	NIST Webbook
rinpol	1090.00	NIST Webbook
rinpol	1074.00	NIST Webbook
rinpol	1075.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1081.00	NIST Webbook
rinpol	1052.00	NIST Webbook
rinpol	1089.00	NIST Webbook
rinpol	1073.00	NIST Webbook
rinpol	1057.00	NIST Webbook
rinpol	1075.00	NIST Webbook
rinpol	1060.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1093.00	NIST Webbook
rinpol	1085.00	NIST Webbook
rinpol	1078.00	NIST Webbook
rinpol	1080.00	NIST Webbook
rinpol	1071.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1076.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1090.00	NIST Webbook
rinpol	1099.00	NIST Webbook
rinpol	1066.00	NIST Webbook
rinpol	1070.00	NIST Webbook
rinpol	1086.00	NIST Webbook
rinpol	1086.00	NIST Webbook
rinpol	1064.00	NIST Webbook
rinpol	1078.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1083.00	NIST Webbook
rinpol	1087.00	NIST Webbook
ripol	1406.00	NIST Webbook
ripol	1396.00	NIST Webbook
ripol	1427.00	NIST Webbook
ripol	1391.00	NIST Webbook
ripol	1407.00	NIST Webbook

ripol	1397.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1426.00		NIST Webbook
ripol	1395.00		NIST Webbook
ripol	1396.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1403.00		NIST Webbook
ripol	1400.00		NIST Webbook
ripol	1406.00		NIST Webbook
ripol	1406.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1432.00		NIST Webbook
ripol	1432.00		NIST Webbook
ripol	1407.00		NIST Webbook
ripol	1390.00		NIST Webbook
ripol	1391.00		NIST Webbook
ripol	1402.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1389.00		NIST Webbook
ripol	1397.00		NIST Webbook
ripol	1383.00		NIST Webbook
ripol	1414.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1398.00		NIST Webbook
ripol	1388.00		NIST Webbook
ripol	1392.00		NIST Webbook
ripol	1405.00		NIST Webbook
ripol	1426.00		NIST Webbook
ripol	1392.00		NIST Webbook
ripol	1391.00		NIST Webbook
ripol	1396.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1422.00		NIST Webbook
ripol	1401.00		NIST Webbook
ripol	1385.00		NIST Webbook
ripol	1395.00		NIST Webbook
ripol	1397.00		NIST Webbook
ripol	1389.00		NIST Webbook
ripol	1410.00		NIST Webbook
tb	466.20 ± 1.00	K	NIST Webbook
tc	742.46	K	Joback Method
tf	346.60	K	Joback Method
vc	0.503	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	324.29	J/mol×K	509.58	Joback Method
cpg	342.61	J/mol×K	548.39	Joback Method
cpg	359.48	J/mol×K	587.21	Joback Method
cpg	375.18	J/mol×K	626.02	Joback Method
cpg	389.96	J/mol×K	664.83	Joback Method
cpg	404.06	J/mol×K	703.65	Joback Method
cpg	417.76	J/mol×K	742.46	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=C126216&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C126216&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>
<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>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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/70-158-9/Fenchone.pdf>

Generated by Cheméo on 2024-04-20 06:25:33.323834265 +0000 UTC m=+15883582.244411580.

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