

# 2-Furoic acid, tetrahydro

<b>Other names:</b>	2-Furancarboxylic acid, tetrahydro- Tetrahydro-2-furancarboxylic acid
<b>Inchi:</b>	InChI=1S/C5H8O3/c6-5(7)4-2-1-3-8-4/h4H,1-3H2,(H,6,7)/t4-/m1/s1
<b>InchiKey:</b>	UJLJRQIPMGXEZ-SCSAIBSYSA-N
<b>Formula:</b>	C5H8O3
<b>SMILES:</b>	O=C(O)C1CCCO1
<b>Mol. weight [g/mol]:</b>	116.12
<b>CAS:</b>	16874-33-2

## Physical Properties

Property code	Value	Unit	Source
gf	-324.09	kJ/mol	Joback Method
hf	-482.86	kJ/mol	Joback Method
hfus	16.31	kJ/mol	Joback Method
hvap	54.92	kJ/mol	Joback Method
log10ws	-0.11		Crippen Method
logp	0.250		Crippen Method
mvol	83.760	ml/mol	McGowan Method
pc	5312.41	kPa	Joback Method
tb	502.08	K	Joback Method
tc	701.79	K	Joback Method
tf	294.33	K	Joback Method
vc	0.302	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	191.84	J/molxK	502.08	Joback Method
cpg	234.94	J/molxK	668.51	Joback Method
cpg	227.34	J/molxK	635.22	Joback Method
cpg	219.24	J/molxK	601.94	Joback Method
cpg	210.64	J/molxK	568.65	Joback Method
cpg	201.51	J/molxK	535.37	Joback Method
cpg	242.08	J/molxK	701.79	Joback Method

dvisc	0.0002734	Paxs	502.08	Joback Method
dvisc	0.0004184	Paxs	467.45	Joback Method
dvisc	0.0006854	Paxs	432.83	Joback Method
dvisc	0.0012236	Paxs	398.20	Joback Method
dvisc	0.0024394	Paxs	363.58	Joback Method
dvisc	0.0056232	Paxs	328.95	Joback Method
dvisc	0.0157770	Paxs	294.33	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	401.70	K	1.70	NIST Webbook

## 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=C16874332&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16874332&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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/68-545-2/2-Furoic-acid-tetrahydro.pdf>

Generated by Cheméo on 2024-04-25 02:16:24.017483139 +0000 UTC m=+16300632.938060455.

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