

# Furan-2-carboxaldehyde, 3-methyl

Inchi:	InChI=1S/C7H8O/c1-6-3-2-4-7(6)5-8/h2-3,5H,4H2,1H3
InchiKey:	SOVBMQDVRPCJDH-UHFFFAOYSA-N
Formula:	C7H8O
SMILES:	CC1=C(C=O)CC=C1
Mol. weight [g/mol]:	108.14

## Physical Properties

Property code	Value	Unit	Source
gf	-6.54	kJ/mol	Joback Method
hf	-99.95	kJ/mol	Joback Method
hfus	10.71	kJ/mol	Joback Method
hvap	40.37	kJ/mol	Joback Method
log10ws	-1.63		Crippen Method
logp	1.462		Crippen Method
mcvol	91.600	ml/mol	McGowan Method
pc	4103.88	kPa	Joback Method
rinpol	938.00		NIST Webbook
rinpol	920.00		NIST Webbook
rinpol	935.00		NIST Webbook
rinpol	934.00		NIST Webbook
ripol	1565.00		NIST Webbook
ripol	1562.00		NIST Webbook
tb	436.45	K	Joback Method
tc	645.82	K	Joback Method
tf	252.35	K	Joback Method
vc	0.358	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	171.56	J/molxK	436.45	Joback Method
cpg	181.73	J/molxK	471.35	Joback Method
cpg	191.31	J/molxK	506.24	Joback Method
cpg	200.34	J/molxK	541.14	Joback Method

cpg	208.84	J/molxK	576.03	Joback Method
cpg	216.84	J/molxK	610.93	Joback Method
cpg	224.36	J/molxK	645.82	Joback Method
dvisc	0.0019115	Paxs	252.35	Joback Method
dvisc	0.0012298	Paxs	283.03	Joback Method
dvisc	0.0008624	Paxs	313.72	Joback Method
dvisc	0.0006443	Paxs	344.40	Joback Method
dvisc	0.0005049	Paxs	375.08	Joback Method
dvisc	0.0004105	Paxs	405.77	Joback Method
dvisc	0.0003436	Paxs	436.45	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R68277&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R68277&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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