

# 2,5-Dimethylfuran-3,4(2H,5H)-dione

<b>Inchi:</b>	InChI=1S/C6H8O3/c1-3-5(7)6(8)4(2)9-3/h3-4H,1-2H3
<b>InchiKey:</b>	PUVDDHUFFRRFMN-UHFFFAOYSA-N
<b>Formula:</b>	C6H8O3
<b>SMILES:</b>	CC1OC(C)C(=O)C1=O
<b>Mol. weight [g/mol]:</b>	128.13
<b>CAS:</b>	68755-49-7

## Physical Properties

Property code	Value	Unit	Source
gf	-302.82	kJ/mol	Joback Method
hf	-534.43	kJ/mol	Joback Method
hfus	13.30	kJ/mol	Joback Method
hvap	41.90	kJ/mol	Joback Method
log10ws	-0.10		Crippen Method
logp	-0.068		Crippen Method
mcvol	93.550	ml/mol	McGowan Method
pc	3975.52	kPa	Joback Method
rinpol	1095.50		NIST Webbook
rinpol	1095.50		NIST Webbook
tb	509.88	K	Joback Method
tc	744.55	K	Joback Method
tf	327.05	K	Joback Method
vc	0.346	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.61	J/mol×K	509.88	Joback Method
cpg	230.78	J/mol×K	548.99	Joback Method
cpg	243.53	J/mol×K	588.10	Joback Method
cpg	255.78	J/mol×K	627.21	Joback Method
cpg	267.49	J/mol×K	666.32	Joback Method
cpg	278.58	J/mol×K	705.44	Joback Method
cpg	289.01	J/mol×K	744.55	Joback Method

# Sources

<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=C68755497&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C68755497&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>rinpola:</b>	Non-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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