

# Furan, tetrahydro-2,2,5,5-tetramethyl-

<b>Other names:</b>	2,2,5,5-Tetramethyltetrahydrofuran Tetrahydro-2,2,5,5-tetramethylfuran
<b>Inchi:</b>	InChI=1S/C8H16O/c1-7(2)5-6-8(3,4)9-7/h5-6H2,1-4H3
<b>InchiKey:</b>	BBLDTXFLAHKYFJ-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O
<b>SMILES:</b>	CC1(C)CCC(C)(C)O1
<b>Mol. weight [g/mol]:</b>	128.21
<b>CAS:</b>	15045-43-9

## Physical Properties

Property code	Value	Unit	Source
gf	-51.78	kJ/mol	Joback Method
hf	-269.83	kJ/mol	Joback Method
hfus	6.86	kJ/mol	Joback Method
hvap	35.56	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.354		Crippen Method
mvol	118.590	ml/mol	McGowan Method
pc	3235.66	kPa	Joback Method
rinp	759.00		NIST Webbook
tb	384.20	K	NIST Webbook
tc	631.03	K	Joback Method
tf	260.95	K	Joback Method
vc	0.441	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	247.46	J/molxK	420.48	Joback Method
cpg	264.96	J/molxK	455.57	Joback Method
cpg	280.97	J/molxK	490.66	Joback Method
cpg	295.67	J/molxK	525.75	Joback Method
cpg	309.25	J/molxK	560.85	Joback Method
cpg	321.88	J/molxK	595.94	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=C15045439&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15045439&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>

## 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>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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