

# 2H-Pyran-3(4H)-one, 6-ethenyldihydro-2,2,6-trimethyl-

Other names:	2H-Pyran-3(4H)-one, dihydro-2,2,6-trimethyl-6-vinyl- 2,2,6-Trimethyl-3-keto-6-vinyltetrahydropyran 6-Ethenyldihydro-2,2,6-trimethyl-2H-pyran-3(4H)-one
Inchi:	InChI=1S/C10H16O2/c1-5-10(4)7-6-8(11)9(2,3)12-10/h5H,1,6-7H2,2-4H3
InchiKey:	ATQPZCOAQSYPTR-UHFFFAOYSA-N
Formula:	C10H16O2
SMILES:	C=CC1(C)CCC(=O)C(C)(C)O1
Mol. weight [g/mol]:	168.23
CAS:	33933-72-1

## Physical Properties

Property code	Value	Unit	Source
gf	-81.79	kJ/mol	Joback Method
hf	-329.54	kJ/mol	Joback Method
hfus	8.17	kJ/mol	Joback Method
hvap	43.76	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	2.089		Crippen Method
mcvol	144.040	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
rinpol	1106.00		NIST Webbook
rinpol	1107.00		NIST Webbook
rinpol	1107.00		NIST Webbook
rinpol	1109.00		NIST Webbook
rinpol	1109.00		NIST Webbook
rinpol	1109.00		NIST Webbook
tb	535.01	K	Joback Method
tc	770.10	K	Joback Method
tf	346.43	K	Joback Method
vc	0.532	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
---------------	-------	------	-----------------	--------

cpg	351.47	J/mol×K	535.01	Joback Method
cpg	369.18	J/mol×K	574.19	Joback Method
cpg	385.73	J/mol×K	613.37	Joback Method
cpg	401.35	J/mol×K	652.56	Joback Method
cpg	416.23	J/mol×K	691.74	Joback Method
cpg	430.58	J/mol×K	730.92	Joback Method
cpg	444.63	J/mol×K	770.10	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C33933721&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33933721&amp;Units=SI</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

Latest version available from:

<https://www.chemeo.com/cid/62-712-2/2H-Pyran-3-4H-one-6-ethenyldihydro-2-2-6-trimethyl.pdf>

Generated by Cheméo on 2024-04-20 09:25:19.073931152 +0000 UTC m=+15894367.994508464.

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