

# 2,6,6,10-Tetramethyl-undeca-8,10-diene-3,7-dione

<b>Inchi:</b>	InChI=1S/C15H24O2/c1-11(2)7-8-14(17)15(5,6)10-9-13(16)12(3)4/h7-8,12H,1,9-10H2,2-
<b>InchiKey:</b>	WDBJWFBDIGLJCZ-BQYQJAHWSA-N
<b>Formula:</b>	C15H24O2
<b>SMILES:</b>	<chem>C=C(C)C=CC(=O)C(C)(C)CCC(=O)C(C)C</chem>
<b>Mol. weight [g/mol]:</b>	236.35
<b>CAS:</b>	98419-16-0

## Physical Properties

Property code	Value	Unit	Source
gf	-22.51	kJ/mol	Joback Method
hf	-359.26	kJ/mol	Joback Method
hfus	24.48	kJ/mol	Joback Method
hvap	60.16	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.719		Crippen Method
mvol	216.750	ml/mol	McGowan Method
pc	1727.46	kPa	Joback Method
rinpol	1786.00		NIST Webbook
tb	647.39	K	Joback Method
tc	845.60	K	Joback Method
tf	325.29	K	Joback Method
vc	0.833	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.51	J/molxK	647.39	Joback Method
cpg	594.19	J/molxK	680.43	Joback Method
cpg	609.89	J/molxK	713.46	Joback Method
cpg	624.66	J/molxK	746.50	Joback Method
cpg	638.57	J/molxK	779.53	Joback Method
cpg	651.67	J/molxK	812.57	Joback Method
cpg	664.04	J/molxK	845.60	Joback Method

# 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=C98419160&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C98419160&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>
<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>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>h vap:</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>r in pol:</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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