

# 2,4,6,9-Tetramethyldec-8-en-3,5-dion (A)

<b>Inchi:</b>	InChI=1S/C14H24O2/c1-9(2)7-8-11(5)14(16)12(6)13(15)10(3)4/h7,10-12H,8H2,1-6H3
<b>InchiKey:</b>	VNEFXHWAHYWLHU-UHFFFAOYSA-N
<b>Formula:</b>	C14H24O2
<b>SMILES:</b>	CC(C)=CCC(C)C(=O)C(C)C(=O)C(C)C
<b>Mol. weight [g/mol]:</b>	224.34

## Physical Properties

Property code	Value	Unit	Source
gf	-126.49	kJ/mol	Joback Method
hf	-465.86	kJ/mol	Joback Method
hfus	23.54	kJ/mol	Joback Method
hvap	59.12	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.409		Crippen Method
mcvol	206.960	ml/mol	McGowan Method
pc	1803.09	kPa	Joback Method
rinpol	1464.00		NIST Webbook
rinpol	1464.00		NIST Webbook
ripol	1882.00		NIST Webbook
ripol	1882.00		NIST Webbook
tb	630.18	K	Joback Method
tc	824.55	K	Joback Method
tf	283.36	K	Joback Method
vc	0.794	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	545.13	J/molxK	630.18	Joback Method
cpg	561.92	J/molxK	662.57	Joback Method
cpg	577.81	J/molxK	694.97	Joback Method
cpg	592.84	J/molxK	727.36	Joback Method
cpg	607.05	J/molxK	759.76	Joback Method
cpg	620.47	J/molxK	792.15	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R285277&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R285277&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.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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</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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