

# 4,8,12,16-Tetramethylheptadecan-4-olide

<b>Other names:</b>	5-Methyl-5-(4,8,12-trimethyltridecyl)dihydrofuran-2(3H)-one
<b>Inchi:</b>	InChI=1S/C21H40O2/c1-17(2)9-6-10-18(3)11-7-12-19(4)13-8-15-21(5)16-14-20(22)23-2
<b>InchiKey:</b>	LGWNRNDWDZHUNP-UHFFFAOYSA-N
<b>Formula:</b>	C21H40O2
<b>SMILES:</b>	CC(C)CCCC(C)CCCC(C)CCCC1(C)CCC(=O)O1
<b>Mol. weight [g/mol]:</b>	324.54
<b>CAS:</b>	96168-15-9

## Physical Properties

Property code	Value	Unit	Source
gf	-59.03	kJ/mol	Joback Method
hf	-686.59	kJ/mol	Joback Method
hfus	34.70	kJ/mol	Joback Method
hvap	69.04	kJ/mol	Joback Method
log10ws	-6.76		Crippen Method
logp	6.521		Crippen Method
mcvol	303.330	ml/mol	McGowan Method
pc	1142.12	kPa	Joback Method
rinpol	2364.20		NIST Webbook
rinpol	2364.20		NIST Webbook
tb	788.85	K	Joback Method
tc	986.27	K	Joback Method
tf	411.02	K	Joback Method
vc	1.161	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	981.94	J/molxK	788.85	Joback Method
cpg	1004.50	J/molxK	821.75	Joback Method
cpg	1026.17	J/molxK	854.66	Joback Method
cpg	1047.03	J/molxK	887.56	Joback Method
cpg	1067.20	J/molxK	920.47	Joback Method
cpg	1086.76	J/molxK	953.37	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=C96168159&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C96168159&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>mccvol:</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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