

# 3,7,11,15-Tetramethylhexadec-2-en-1-yl acetate

Inchi:	InChI=1S/C22H42O2/c1-18(2)10-7-11-19(3)12-8-13-20(4)14-9-15-21(5)16-17-24-22(6)23
InchiKey:	JIGCTXHIECXJRJ-LTGZKZEYSA-N
Formula:	C22H42O2
SMILES:	CC(=O)OCC=C(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]:	338.57
CAS:	76337-16-1

## Physical Properties

Property code	Value	Unit	Source
gf	-35.21	kJ/mol	Joback Method
hf	-650.62	kJ/mol	Joback Method
hfus	43.85	kJ/mol	Joback Method
hvap	72.60	kJ/mol	Joback Method
log10ws	-7.02		Crippen Method
logp	6.935		Crippen Method
mcvol	323.980	ml/mol	McGowan Method
pc	974.73	kPa	Joback Method
rinpol	2232.30		NIST Webbook
rinpol	2232.30		NIST Webbook
tb	781.77	K	Joback Method
tc	964.72	K	Joback Method
tf	345.82	K	Joback Method
vc	1.254	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1007.80	J/molxK	781.77	Joback Method
cpg	1028.28	J/molxK	812.26	Joback Method
cpg	1047.70	J/molxK	842.75	Joback Method
cpg	1066.10	J/molxK	873.25	Joback Method
cpg	1083.53	J/molxK	903.74	Joback Method
cpg	1100.03	J/molxK	934.23	Joback Method
cpg	1115.63	J/molxK	964.72	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=C76337161&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C76337161&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>rinpola:</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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