

# 3,7-Dimethyloct-6-en-1-yl tetradecanoate

<b>Inchi:</b>	InChI=1S/C24H46O2/c1-5-6-7-8-9-10-11-12-13-14-15-19-24(25)26-21-20-23(4)18-16-17
<b>InchiKey:</b>	MIBQSCZCOKDSJG-UHFFFAOYSA-N
<b>Formula:</b>	C24H46O2
<b>SMILES:</b>	CCCCCCCCCCCC(=O)OCCC(C)CCC=C(C)C
<b>Mol. weight [g/mol]:</b>	366.62
<b>CAS:</b>	3681-72-9

## Physical Properties

Property code	Value	Unit	Source
gf	-13.49	kJ/mol	Joback Method
hf	-681.34	kJ/mol	Joback Method
hfus	56.07	kJ/mol	Joback Method
hvap	77.82	kJ/mol	Joback Method
log10ws	-8.34		Crippen Method
logp	8.003		Crippen Method
mcvol	352.160	ml/mol	McGowan Method
pc	859.48	kPa	Joback Method
rinpol	2513.60		NIST Webbook
rinpol	2513.60		NIST Webbook
tb	828.41	K	Joback Method
tc	1015.17	K	Joback Method
tf	398.36	K	Joback Method
vc	1.379	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1131.65	J/molxK	828.41	Joback Method
cpg	1152.73	J/molxK	859.54	Joback Method
cpg	1172.70	J/molxK	890.66	Joback Method
cpg	1191.60	J/molxK	921.79	Joback Method
cpg	1209.49	J/molxK	952.92	Joback Method
cpg	1226.41	J/molxK	984.05	Joback Method
cpg	1242.40	J/molxK	1015.17	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=C3681729&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3681729&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>hvp:</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>rinp:</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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