

# 3,7-dimethyl-6-octenyl 3,7-dimethyloct-6-enoate

Other names:	3,7-Dimethyloct-6-en-1-yl 3,7-dimethyloct-6-enoate
Inchi:	InChI=1S/C20H36O2/c1-16(2)9-7-11-18(5)13-14-22-20(21)15-19(6)12-8-10-17(3)4/h9-10
InchiKey:	HUZXZYWMBWQTNX-UHFFFAOYSA-N
Formula:	C20H36O2
SMILES:	CC(C)=CCCC(C)CCOC(=O)CC(C)CCC=C(C)C
Mol. weight [g/mol]:	308.50
CAS:	82766-40-3

## Physical Properties

Property code	Value	Unit	Source
gf	22.06	kJ/mol	Joback Method
hf	-496.63	kJ/mol	Joback Method
hfus	41.08	kJ/mol	Joback Method
hvap	68.57	kJ/mol	Joback Method
log10ws	-6.28		Crippen Method
logp	6.075		Crippen Method
mcvol	291.500	ml/mol	McGowan Method
pc	1139.80	kPa	Joback Method
rinpol	2047.40		NIST Webbook
rinpol	2047.40		NIST Webbook
rinpol	2032.00		NIST Webbook
rinpol	2032.00		NIST Webbook
tb	740.49	K	Joback Method
tc	925.36	K	Joback Method
tf	319.24	K	Joback Method
vc	1.129	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	862.34	J/molxK	740.49	Joback Method
cpg	881.69	J/molxK	771.30	Joback Method
cpg	900.06	J/molxK	802.11	Joback Method
cpg	917.52	J/molxK	832.93	Joback Method

cpg	934.09	J/mol×K	863.74	Joback Method
cpg	949.83	J/mol×K	894.55	Joback Method
cpg	964.79	J/mol×K	925.36	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=C82766403&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C82766403&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

## 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>mvol:</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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