

# Succinic acid, 3,7-dimethyloct-6-en-1-yl tetradecyl ester

<b>Inchi:</b>	InChI=1S/C28H52O4/c1-5-6-7-8-9-10-11-12-13-14-15-16-23-31-27(29)20-21-28(30)32-2
<b>InchiKey:</b>	CNYRVRASJYQKSR-UHFFFAOYSA-N
<b>Formula:</b>	C28H52O4
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)CCC(=O)OCCC(C)CCC=C(C)C
<b>Mol. weight [g/mol]:</b>	452.71

## Physical Properties

Property code	Value	Unit	Source
gf	-213.73	kJ/mol	Joback Method
hf	-1008.70	kJ/mol	Joback Method
hfus	69.22	kJ/mol	Joback Method
hvap	95.88	kJ/mol	Joback Method
log10ws	-8.88		Crippen Method
logp	8.327		Crippen Method
mvol	415.960	ml/mol	McGowan Method
pc	711.49	kPa	Joback Method
rinpol	3063.00		NIST Webbook
tb	996.22	K	Joback Method
tc	1230.18	K	Joback Method
tf	515.60	K	Joback Method
vc	1.627	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1446.41	J/mol×K	996.22	Joback Method
cpg	1468.21	J/mol×K	1035.21	Joback Method
cpg	1488.26	J/mol×K	1074.21	Joback Method
cpg	1506.66	J/mol×K	1113.20	Joback Method
cpg	1523.48	J/mol×K	1152.19	Joback Method
cpg	1538.81	J/mol×K	1191.19	Joback Method
cpg	1552.74	J/mol×K	1230.18	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U353347&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353347&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>
<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>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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