

# Succinic acid, 3-methylbut-3-enyl tetradecyl ester

Inchi:	InChI=1S/C23H42O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-19-26-22(24)16-17-23(25)27-20
InchiKey:	YVLGLAQZWADLLE-UHFFFAOYSA-N
Formula:	C23H42O4
SMILES:	C=C(C)CCOC(=O)CCC(=O)OCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	382.58

## Physical Properties

Property code	Value	Unit	Source
gf	-245.77	kJ/mol	Joback Method
hf	-892.01	kJ/mol	Joback Method
hfus	58.31	kJ/mol	Joback Method
hvap	84.51	kJ/mol	Joback Method
log10ws	-7.03		Crippen Method
logp	6.520		Crippen Method
mvol	345.510	ml/mol	McGowan Method
pc	925.55	kPa	Joback Method
rinpol	2616.00		NIST Webbook
rinpol	2616.00		NIST Webbook
tb	874.78	K	Joback Method
tc	1070.98	K	Joback Method
tf	477.57	K	Joback Method
vc	1.353	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1125.69	J/molxK	874.78	Joback Method
cpg	1144.76	J/molxK	907.48	Joback Method
cpg	1162.61	J/molxK	940.18	Joback Method
cpg	1179.25	J/molxK	972.88	Joback Method
cpg	1194.74	J/molxK	1005.58	Joback Method
cpg	1209.09	J/molxK	1038.28	Joback Method
cpg	1222.35	J/molxK	1070.98	Joback Method

# Sources

<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=U353450&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353450&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>

# 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>rlnol:</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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