

# Sebacic acid, nonyl tetradecyl ester

<b>Inchi:</b>	InChI=1S/C33H64O4/c1-3-5-7-9-11-12-13-14-15-19-23-27-31-37-33(35)29-25-21-17-16-
<b>InchiKey:</b>	NRVVFESJQWUSKK-UHFFFAOYSA-N
<b>Formula:</b>	C33H64O4
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)CCCCCCCCC(=O)OCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	524.86

## Physical Properties

Property code	Value	Unit	Source
gf	-240.86	kJ/mol	Joback Method
hf	-1214.05	kJ/mol	Joback Method
hfus	86.80	kJ/mol	Joback Method
hvap	107.36	kJ/mol	Joback Method
log10ws	-11.36		Crippen Method
logp	10.645		Crippen Method
mvol	490.710	ml/mol	McGowan Method
pc	542.35	kPa	Joback Method
rinpol	3052.00		NIST Webbook
rinpol	3052.00		NIST Webbook
tb	1107.02	K	Joback Method
tc	1427.61	K	Joback Method
tf	605.99	K	Joback Method
vc	1.931	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1802.85	J/molxK	1107.02	Joback Method
cpg	1904.73	J/molxK	1374.18	Joback Method
cpg	1890.60	J/molxK	1320.75	Joback Method
cpg	1873.58	J/molxK	1267.32	Joback Method
cpg	1853.43	J/molxK	1213.88	Joback Method
cpg	1829.93	J/molxK	1160.45	Joback Method
cpg	1916.20	J/molxK	1427.61	Joback Method
dvisc	0.0000070	Paxs	1107.02	Joback Method

dvisc	0.0000095	Paxs	1023.51	Joback Method
dvisc	0.0000137	Paxs	940.01	Joback Method
dvisc	0.0000210	Paxs	856.50	Joback Method
dvisc	0.0000355	Paxs	773.00	Joback Method
dvisc	0.0000681	Paxs	689.50	Joback Method
dvisc	0.0001562	Paxs	605.99	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354270&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354270&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>dvisc:</b>	Dynamic viscosity
<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>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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