

# Sebacic acid, 3,4-dimethylphenyl nonyl ester

<b>Inchi:</b>	InChI=1S/C27H44O4/c1-4-5-6-7-10-13-16-21-30-26(28)17-14-11-8-9-12-15-18-27(29)31
<b>InchiKey:</b>	VMMAYZARTMGXJQ-UHFFFAOYSA-N
<b>Formula:</b>	C27H44O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCCCCCCC(=O)Oc1ccc(C)c(C)c1
<b>Mol. weight [g/mol]:</b>	432.64

## Physical Properties

Property code	Value	Unit	Source
gf	-198.23	kJ/mol	Joback Method
hf	-876.62	kJ/mol	Joback Method
hfus	64.52	kJ/mol	Joback Method
hvap	97.61	kJ/mol	Joback Method
log10ws	-8.72		Crippen Method
logp	7.623		Crippen Method
mcvol	382.410	ml/mol	McGowan Method
pc	856.47	kPa	Joback Method
rinpol	3320.00		NIST Webbook
tb	1006.38	K	Joback Method
tc	1234.43	K	Joback Method
tf	589.83	K	Joback Method
vc	1.488	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1305.87	J/mol×K	1006.38	Joback Method
cpg	1323.61	J/mol×K	1044.39	Joback Method
cpg	1339.66	J/mol×K	1082.40	Joback Method
cpg	1354.07	J/mol×K	1120.40	Joback Method
cpg	1366.88	J/mol×K	1158.41	Joback Method
cpg	1378.16	J/mol×K	1196.42	Joback Method
cpg	1387.94	J/mol×K	1234.43	Joback Method
dvisc	0.0002371	Paxs	589.83	Joback Method
dvisc	0.0001265	Paxs	659.25	Joback Method

dvisc	0.0000760	Paxs	728.68	Joback Method
dvisc	0.0000500	Paxs	798.10	Joback Method
dvisc	0.0000351	Paxs	867.53	Joback Method
dvisc	0.0000260	Paxs	936.95	Joback Method
dvisc	0.0000201	Paxs	1006.38	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354585&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354585&amp;Units=SI</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

Latest version available from:

<https://www.chemeo.com/cid/55-370-0/Sebacic-acid-3-4-dimethylphenyl-nonyl-ester.pdf>

Generated by Cheméo on 2024-12-12 13:48:38.061742298 +0000 UTC m=+8592180.698711584.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.