

# Sebacic acid, 2,4-dimethylpent-3-yl tetradecyl ester

Inchi:	InChI=1S/C31H60O4/c1-6-7-8-9-10-11-12-13-14-17-20-23-26-34-29(32)24-21-18-15-16-
InchiKey:	KQRQQLMMHHHLBA-UHFFFAOYSA-N
Formula:	C31H60O4
SMILES:	CCCCCCCCCCCCCOC(=O)CCCCCCCC(=O)OC(C(C)C)C(C)C
Mol. weight [g/mol]:	496.81

## Physical Properties

Property code	Value	Unit	Source
gf	-265.02	kJ/mol	Joback Method
hf	-1188.61	kJ/mol	Joback Method
hfus	71.05	kJ/mol	Joback Method
hvap	101.75	kJ/mol	Joback Method
log10ws	-10.15		Crippen Method
logp	9.575		Crippen Method
mvol	462.530	ml/mol	McGowan Method
pc	601.32	kPa	Joback Method
rinpol	3328.00		NIST Webbook
rinpol	3328.00		NIST Webbook
tb	1059.94	K	Joback Method
tc	1331.32	K	Joback Method
tf	538.45	K	Joback Method
vc	1.802	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1671.35	J/molxK	1059.94	Joback Method
cpg	1765.42	J/molxK	1286.09	Joback Method
cpg	1751.46	J/molxK	1240.86	Joback Method
cpg	1735.20	J/molxK	1195.63	Joback Method
cpg	1716.51	J/molxK	1150.40	Joback Method
cpg	1695.27	J/molxK	1105.17	Joback Method
cpg	1777.20	J/molxK	1331.32	Joback Method
dvisc	0.0000073	Paxs	1059.94	Joback Method

dvisc	0.0000103	Paxs	973.03	Joback Method
dvisc	0.0000155	Paxs	886.11	Joback Method
dvisc	0.0000256	Paxs	799.20	Joback Method
dvisc	0.0000477	Paxs	712.28	Joback Method
dvisc	0.0001056	Paxs	625.37	Joback Method
dvisc	0.0003028	Paxs	538.45	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=U355436&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355436&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/33-963-6/Sebacic-acid-2-4-dimethylpent-3-yl-tetradecyl-ester.pdf>

Generated by Cheméo on 2024-04-23 07:04:27.115649153 +0000 UTC m=+16145116.036226481.

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