

# Sebacic acid, 6-ethyloct-3-yl tridecyl ester

<b>Inchi:</b>	InChI=1S/C33H64O4/c1-5-9-10-11-12-13-14-15-18-21-24-29-36-32(34)25-22-19-16-17-2
<b>InchiKey:</b>	YSFOTZQCVDROIA-UHFFFAOYSA-N
<b>Formula:</b>	C33H64O4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)CCCCCCCC(=O)OC(CC)CCC(CC)CC
<b>Mol. weight [g/mol]:</b>	524.86

## Physical Properties

Property code	Value	Unit	Source
gf	-245.74	kJ/mol	Joback Method
hf	-1224.61	kJ/mol	Joback Method
hfus	79.75	kJ/mol	Joback Method
hvap	106.59	kJ/mol	Joback Method
log10ws	-11.23		Crippen Method
logp	10.500		Crippen Method
mvol	490.710	ml/mol	McGowan Method
pc	546.41	kPa	Joback Method
rinpol	3576.00		NIST Webbook
rinpol	3576.00		NIST Webbook
tb	1106.14	K	Joback Method
tc	1416.02	K	Joback Method
tf	575.99	K	Joback Method
vc	1.919	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1802.92	J/molxK	1106.14	Joback Method
cpg	1828.88	J/molxK	1157.79	Joback Method
cpg	1851.43	J/molxK	1209.43	Joback Method
cpg	1870.77	J/molxK	1261.08	Joback Method
cpg	1887.12	J/molxK	1312.73	Joback Method
cpg	1900.68	J/molxK	1364.37	Joback Method
cpg	1911.65	J/molxK	1416.02	Joback Method
dvisc	0.0001947	Paxs	575.99	Joback Method

dvisc	0.0000733	Paxs	664.35	Joback Method
dvisc	0.0000347	Paxs	752.71	Joback Method
dvisc	0.0000192	Paxs	841.06	Joback Method
dvisc	0.0000119	Paxs	929.42	Joback Method
dvisc	0.0000080	Paxs	1017.78	Joback Method
dvisc	0.0000058	Paxs	1106.14	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=U354194&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354194&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/21-061-0/Sebacic-acid-6-ethyloct-3-yl-tridecyl-ester.pdf>

Generated by Cheméo on 2024-04-20 01:50:39.69318789 +0000 UTC m=+15867088.613765217.

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