

# Sebacic acid, 2-ethoxyethyl tridecyl ester

<b>Inchi:</b>	InChI=1S/C27H52O5/c1-3-5-6-7-8-9-10-11-14-17-20-23-31-26(28)21-18-15-12-13-16-19
<b>InchiKey:</b>	SKCTVZSLCMTKIO-UHFFFAOYSA-N
<b>Formula:</b>	C27H52O5
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)CCCCCCCC(=O)OCCOCC
<b>Mol. weight [g/mol]:</b>	456.70

## Physical Properties

Property code	Value	Unit	Source
gf	-396.38	kJ/mol	Joback Method
hf	-1222.43	kJ/mol	Joback Method
hfus	72.45	kJ/mol	Joback Method
hvap	96.42	kJ/mol	Joback Method
log10ws	-7.94		Crippen Method
logp	7.541		Crippen Method
mvol	412.040	ml/mol	McGowan Method
pc	716.83	kPa	Joback Method
rinpol	3160.00		NIST Webbook
rinpol	3160.00		NIST Webbook
tb	992.16	K	Joback Method
tc	1231.88	K	Joback Method
tf	560.60	K	Joback Method
vc	1.613	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1441.41	J/molxK	992.16	Joback Method
cpg	1463.00	J/molxK	1032.11	Joback Method
cpg	1482.41	J/molxK	1072.07	Joback Method
cpg	1499.71	J/molxK	1112.02	Joback Method
cpg	1514.93	J/molxK	1151.98	Joback Method
cpg	1528.13	J/molxK	1191.93	Joback Method
cpg	1539.36	J/molxK	1231.88	Joback Method
dvisc	0.0002410	Paxs	560.60	Joback Method

dvisc	0.0001135	Paxs	632.53	Joback Method
dvisc	0.0000624	Paxs	704.45	Joback Method
dvisc	0.0000383	Paxs	776.38	Joback Method
dvisc	0.0000255	Paxs	848.31	Joback Method
dvisc	0.0000181	Paxs	920.23	Joback Method
dvisc	0.0000135	Paxs	992.16	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=U355639&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355639&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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