

# Sebacic acid, 2-methoxyethyl pentadecyl ester

**Inchi:** InChI=1S/C28H54O5/c1-3-4-5-6-7-8-9-10-11-12-15-18-21-24-32-27(29)22-19-16-13-14-  
**InchiKey:** QMFGRPDSA AVQQH-UHFFFAOYSA-N  
**Formula:** C28H54O5  
**SMILES:** CCCCCCCCCCCCCCOC(=O)CCCCCCCC(=O)OCCOC  
**Mol. weight [g/mol]:** 470.73

## Physical Properties

Property code	Value	Unit	Source
gf	-387.96	kJ/mol	Joback Method
hf	-1243.07	kJ/mol	Joback Method
hfus	75.04	kJ/mol	Joback Method
hvap	98.64	kJ/mol	Joback Method
log10ws	-8.36		Crippen Method
logp	7.931		Crippen Method
mvol	426.130	ml/mol	McGowan Method
pc	681.36	kPa	Joback Method
rinpol	3309.00		NIST Webbook
rinpol	3309.00		NIST Webbook
tb	1015.04	K	Joback Method
tc	1267.21	K	Joback Method
tf	571.87	K	Joback Method
vc	1.669	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1505.96	J/molxK	1015.04	Joback Method
cpg	1528.16	J/molxK	1057.07	Joback Method
cpg	1547.93	J/molxK	1099.10	Joback Method
cpg	1565.34	J/molxK	1141.12	Joback Method
cpg	1580.45	J/molxK	1183.15	Joback Method
cpg	1593.32	J/molxK	1225.18	Joback Method
cpg	1604.01	J/molxK	1267.21	Joback Method
dvisc	0.0002107	Paxs	571.87	Joback Method

dvisc	0.0000984	Paxs	645.73	Joback Method
dvisc	0.0000537	Paxs	719.59	Joback Method
dvisc	0.0000329	Paxs	793.45	Joback Method
dvisc	0.0000218	Paxs	867.32	Joback Method
dvisc	0.0000155	Paxs	941.18	Joback Method
dvisc	0.0000115	Paxs	1015.04	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U355767&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355767&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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