

# Sebacic acid, octyl 2-phenoxyethyl ester

**Inchi:** InChI=1S/C26H42O5/c1-2-3-4-5-10-16-21-30-25(27)19-14-8-6-7-9-15-20-26(28)31-23-22  
**InchiKey:** SDQKTGARNVTMFF-UHFFFAOYSA-N  
**Formula:** C26H42O5  
**SMILES:** CCCCCCOC(=O)CCCCCCCC(=O)OCCOc1ccccc1  
**Mol. weight [g/mol]:** 434.61

## Physical Properties

Property code	Value	Unit	Source
gf	-292.39	kJ/mol	Joback Method
hf	-965.26	kJ/mol	Joback Method
hfus	63.90	kJ/mol	Joback Method
hvap	96.47	kJ/mol	Joback Method
log10ws	-7.27		Crippen Method
logp	6.633		Crippen Method
mvol	374.190	ml/mol	McGowan Method
pc	913.84	kPa	Joback Method
rinpol	3141.00		NIST Webbook
rinpol	3141.00		NIST Webbook
tb	995.96	K	Joback Method
tc	1221.12	K	Joback Method
tf	575.75	K	Joback Method
vc	1.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1273.80	J/molxK	995.96	Joback Method
cpg	1290.75	J/molxK	1033.49	Joback Method
cpg	1305.98	J/molxK	1071.01	Joback Method
cpg	1319.53	J/molxK	1108.54	Joback Method
cpg	1331.43	J/molxK	1146.07	Joback Method
cpg	1341.74	J/molxK	1183.60	Joback Method
cpg	1350.51	J/molxK	1221.12	Joback Method
dvisc	0.0002376	Paxs	575.75	Joback Method

dvisc	0.0001195	Paxs	645.78	Joback Method
dvisc	0.0000687	Paxs	715.82	Joback Method
dvisc	0.0000436	Paxs	785.86	Joback Method
dvisc	0.0000298	Paxs	855.89	Joback Method
dvisc	0.0000216	Paxs	925.92	Joback Method
dvisc	0.0000164	Paxs	995.96	Joback Method

## Sources

<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=U380786&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380786&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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/86-604-6/Sebacic-acid-octyl-2-phenoxyethyl-ester.pdf>

Generated by Cheméo on 2024-04-28 14:47:12.880798057 +0000 UTC m=+16604881.801375372.

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