

# Sebacic acid, octyl pentyl ester

<b>Inchi:</b>	InChI=1S/C23H44O4/c1-3-5-7-8-13-17-21-27-23(25)19-15-12-10-9-11-14-18-22(24)26-2
<b>InchiKey:</b>	HCLXMRIUFOFXNK-UHFFFAOYSA-N
<b>Formula:</b>	C23H44O4
<b>SMILES:</b>	CCCCCCCCOC(=O)CCCCCCCC(=O)OCCCCC
<b>Mol. weight [g/mol]:</b>	384.59

## Physical Properties

Property code	Value	Unit	Source
gf	-325.06	kJ/mol	Joback Method
hf	-1007.65	kJ/mol	Joback Method
hfus	60.90	kJ/mol	Joback Method
hvap	85.10	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	6.744		Crippen Method
mvol	349.810	ml/mol	McGowan Method
pc	899.64	kPa	Joback Method
rinpol	2723.00		NIST Webbook
tb	878.22	K	Joback Method
tc	1075.46	K	Joback Method
tf	493.29	K	Joback Method
vc	1.371	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1154.52	J/molxK	878.22	Joback Method
cpg	1174.19	J/molxK	911.09	Joback Method
cpg	1192.56	J/molxK	943.97	Joback Method
cpg	1209.66	J/molxK	976.84	Joback Method
cpg	1225.52	J/molxK	1009.71	Joback Method
cpg	1240.17	J/molxK	1042.59	Joback Method
cpg	1253.64	J/molxK	1075.46	Joback Method
dvisc	0.0005944	Paxs	493.29	Joback Method
dvisc	0.0002809	Paxs	557.44	Joback Method

dvisc	0.0001550	Paxs	621.60	Joback Method
dvisc	0.0000955	Paxs	685.75	Joback Method
dvisc	0.0000640	Paxs	749.91	Joback Method
dvisc	0.0000457	Paxs	814.07	Joback Method
dvisc	0.0000342	Paxs	878.22	Joback Method

## Sources

<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=U354233&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354233&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>

## 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/21-753-2/Sebacic-acid-octyl-pentyl-ester.pdf>

Generated by Cheméo on 2024-04-23 05:42:04.674221977 +0000 UTC m=+16140173.594799289.

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