

# Sebacic acid, octyl pent-4-en-2-yl ester

<b>Inchi:</b>	InChI=1S/C23H42O4/c1-4-6-7-8-13-16-20-26-22(24)18-14-11-9-10-12-15-19-23(25)27-2
<b>InchiKey:</b>	DLFLHQGTQNSZDZ-UHFFFAOYSA-N
<b>Formula:</b>	C23H42O4
<b>SMILES:</b>	C=CCC(C)OC(=O)CCCCCCCC(=O)OCCCCCCC
<b>Mol. weight [g/mol]:</b>	382.58

## Physical Properties

Property code	Value	Unit	Source
gf	-239.66	kJ/mol	Joback Method
hf	-887.50	kJ/mol	Joback Method
hfus	56.10	kJ/mol	Joback Method
hvap	84.05	kJ/mol	Joback Method
log10ws	-7.14		Crippen Method
logp	6.519		Crippen Method
mvol	345.510	ml/mol	McGowan Method
pc	927.24	kPa	Joback Method
rinpol	2586.00		NIST Webbook
tb	874.46	K	Joback Method
tc	1070.59	K	Joback Method
tf	476.53	K	Joback Method
vc	1.347	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1126.53	J/molxK	874.46	Joback Method
cpg	1145.57	J/molxK	907.15	Joback Method
cpg	1163.37	J/molxK	939.84	Joback Method
cpg	1179.96	J/molxK	972.52	Joback Method
cpg	1195.37	J/molxK	1005.21	Joback Method
cpg	1209.63	J/molxK	1037.90	Joback Method
cpg	1222.78	J/molxK	1070.59	Joback Method
dvisc	0.0007041	Paxs	476.53	Joback Method
dvisc	0.0003111	Paxs	542.85	Joback Method

dvisc	0.0001643	Paxs	609.17	Joback Method
dvisc	0.0000983	Paxs	675.50	Joback Method
dvisc	0.0000645	Paxs	741.82	Joback Method
dvisc	0.0000453	Paxs	808.14	Joback Method
dvisc	0.0000336	Paxs	874.46	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=U355955&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355955&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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