

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

<b>Inchi:</b>	InChI=1S/C18H32O4/c1-4-12-16(3)22-18(20)14-11-9-7-6-8-10-13-17(19)21-15-5-2/h4,16
<b>InchiKey:</b>	WXVKPWRLTMJSAN-UHFFFAOYSA-N
<b>Formula:</b>	C18H32O4
<b>SMILES:</b>	C=CCC(C)OC(=O)CCCCCCCC(=O)OCCC
<b>Mol. weight [g/mol]:</b>	312.44

## Physical Properties

Property code	Value	Unit	Source
gf	-281.76	kJ/mol	Joback Method
hf	-784.30	kJ/mol	Joback Method
hfus	43.15	kJ/mol	Joback Method
hvap	72.92	kJ/mol	Joback Method
log10ws	-5.05		Crippen Method
logp	4.568		Crippen Method
mcvol	275.060	ml/mol	McGowan Method
pc	1271.87	kPa	Joback Method
rinpol	2101.00		NIST Webbook
rinpol	2101.00		NIST Webbook
tb	760.06	K	Joback Method
tc	941.19	K	Joback Method
tf	420.18	K	Joback Method
vc	1.067	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	824.18	J/molxK	760.06	Joback Method
cpg	841.21	J/molxK	790.25	Joback Method
cpg	857.32	J/molxK	820.44	Joback Method
cpg	872.53	J/molxK	850.63	Joback Method
cpg	886.86	J/molxK	880.81	Joback Method
cpg	900.31	J/molxK	911.00	Joback Method
cpg	912.90	J/molxK	941.19	Joback Method
dvisc	0.0012431	Paxs	420.18	Joback Method

dvisc	0.0005770	Paxs	476.83	Joback Method
dvisc	0.0003153	Paxs	533.47	Joback Method
dvisc	0.0001934	Paxs	590.12	Joback Method
dvisc	0.0001293	Paxs	646.77	Joback Method
dvisc	0.0000922	Paxs	703.41	Joback Method
dvisc	0.0000692	Paxs	760.06	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=U355949&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355949&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>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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