

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

<b>Inchi:</b>	InChI=1S/C19H34O4/c1-5-12-17(4)23-19(21)14-11-9-7-6-8-10-13-18(20)22-15-16(2)3/h5
<b>InchiKey:</b>	IRACLSLDWMQWFK-UHFFFAOYSA-N
<b>Formula:</b>	C19H34O4
<b>SMILES:</b>	<chem>C=CCC(C)OC(=O)CCCCCCCC(=O)OCC(C)C</chem>
<b>Mol. weight [g/mol]:</b>	326.47

## Physical Properties

Property code	Value	Unit	Source
gf	-275.78	kJ/mol	Joback Method
hf	-810.22	kJ/mol	Joback Method
hfus	42.21	kJ/mol	Joback Method
hvap	74.75	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	4.814		Crippen Method
mcvol	289.150	ml/mol	McGowan Method
pc	1195.65	kPa	Joback Method
rinpol	2156.00		NIST Webbook
rinpol	2156.00		NIST Webbook
tb	782.50	K	Joback Method
tc	966.47	K	Joback Method
tf	416.45	K	Joback Method
vc	1.117	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	883.50	J/molxK	782.50	Joback Method
cpg	901.04	J/molxK	813.16	Joback Method
cpg	917.59	J/molxK	843.82	Joback Method
cpg	933.16	J/molxK	874.48	Joback Method
cpg	947.78	J/molxK	905.15	Joback Method
cpg	961.47	J/molxK	935.81	Joback Method
cpg	974.23	J/molxK	966.47	Joback Method
dvisc	0.0013543	Paxs	416.45	Joback Method

dvisc	0.0005655	Paxs	477.46	Joback Method
dvisc	0.0002878	Paxs	538.47	Joback Method
dvisc	0.0001680	Paxs	599.48	Joback Method
dvisc	0.0001084	Paxs	660.48	Joback Method
dvisc	0.0000753	Paxs	721.49	Joback Method
dvisc	0.0000553	Paxs	782.50	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=U355950&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355950&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>c</sub>vol:</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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