

# Sebacic acid, isobutyl pent-4-enyl ester

<b>Inchi:</b>	InChI=1S/C19H34O4/c1-4-5-12-15-22-18(20)13-10-8-6-7-9-11-14-19(21)23-16-17(2)3/h4
<b>InchiKey:</b>	MLJIKARCUSMHBM-UHFFFAOYSA-N
<b>Formula:</b>	C19H34O4
<b>SMILES:</b>	C=CCCCOC(=O)CCCCCCCCC(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	326.47

## Physical Properties

Property code	Value	Unit	Source
gf	-273.34	kJ/mol	Joback Method
hf	-804.94	kJ/mol	Joback Method
hfus	45.74	kJ/mol	Joback Method
hvap	75.14	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.816		Crippen Method
mcvol	289.150	ml/mol	McGowan Method
pc	1189.06	kPa	Joback Method
rinpola	2243.00		NIST Webbook
tb	782.94	K	Joback Method
tc	965.60	K	Joback Method
tf	431.45	K	Joback Method
vc	1.123	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	883.01	J/molxK	782.94	Joback Method
cpg	900.42	J/molxK	813.38	Joback Method
cpg	916.86	J/molxK	843.83	Joback Method
cpg	932.34	J/molxK	874.27	Joback Method
cpg	946.90	J/molxK	904.71	Joback Method
cpg	960.54	J/molxK	935.16	Joback Method
cpg	973.28	J/molxK	965.60	Joback Method
dvisc	0.0011185	Paxs	431.45	Joback Method
dvisc	0.0005136	Paxs	490.03	Joback Method

dvisc	0.0002785	Paxs	548.61	Joback Method
dvisc	0.0001700	Paxs	607.20	Joback Method
dvisc	0.0001131	Paxs	665.78	Joback Method
dvisc	0.0000804	Paxs	724.36	Joback Method
dvisc	0.0000602	Paxs	782.94	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=U355410&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355410&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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