

# Succinic acid, 2-ethylhexyl 2-methoxy-5-methylphenyl ester

**Inchi:** InChI=1S/C20H30O5/c1-5-7-8-16(6-2)14-24-19(21)11-12-20(22)25-18-13-15(3)9-10-17(4)  
**InchiKey:** SIRFDSCIJLBZJG-UHFFFAOYSA-N  
**Formula:** C20H30O5  
**SMILES:** CCCCC(CC)COC(=O)CCC(=O)Oc1cc(C)ccc1OC  
**Mol. weight [g/mol]:** 350.45

## Physical Properties

Property code	Value	Unit	Source
gf	-364.61	kJ/mol	Joback Method
hf	-869.64	kJ/mol	Joback Method
hfus	44.06	kJ/mol	Joback Method
hvap	84.05	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	4.449		Crippen Method
mvol	289.650	ml/mol	McGowan Method
pc	1318.48	kPa	Joback Method
rinpol	2477.00		NIST Webbook
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tb	868.20	K	Joback Method
tc	1072.07	K	Joback Method
tf	518.17	K	Joback Method
vc	1.107	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	906.91	J/molxK	868.20	Joback Method
cpg	972.66	J/molxK	1038.09	Joback Method
cpg	961.99	J/molxK	1004.11	Joback Method
cpg	950.09	J/molxK	970.14	Joback Method
cpg	936.94	J/molxK	936.16	Joback Method
cpg	922.55	J/molxK	902.18	Joback Method
cpg	982.10	J/molxK	1072.07	Joback Method
dvisc	0.0000382	Paxs	868.20	Joback Method

dvisc	0.0000491	Paxs	809.86	Joback Method
dvisc	0.0000655	Paxs	751.52	Joback Method
dvisc	0.0000919	Paxs	693.19	Joback Method
dvisc	0.0001372	Paxs	634.85	Joback Method
dvisc	0.0002221	Paxs	576.51	Joback Method
dvisc	0.0004006	Paxs	518.17	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=U390961&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390961&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</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>log<sub>p</sub>:</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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