

# Succinic acid, 2-ethylhexyl 3-methoxyphenyl ester

Inchi:	InChI=1S/C19H28O5/c1-4-6-8-15(5-2)14-23-18(20)11-12-19(21)24-17-10-7-9-16(13-17)2
InchiKey:	XZRSFSPJMFKCDU-UHFFFAOYSA-N
Formula:	C19H28O5
SMILES:	CCCCC(CC)COC(=O)CCC(=O)Oc1cccc(OC)c1
Mol. weight [g/mol]:	336.42

## Physical Properties

Property code	Value	Unit	Source
gf	-363.40	kJ/mol	Joback Method
hf	-837.53	kJ/mol	Joback Method
hfus	41.86	kJ/mol	Joback Method
hvap	81.16	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.140		Crippen Method
mvol	275.560	ml/mol	McGowan Method
pc	1431.55	kPa	Joback Method
rmpol	2446.00		NIST Webbook
tb	840.34	K	Joback Method
tc	1042.54	K	Joback Method
tf	494.38	K	Joback Method
vc	1.052	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	848.69	J/molxK	840.34	Joback Method
cpg	864.27	J/molxK	874.04	Joback Method
cpg	878.66	J/molxK	907.74	Joback Method
cpg	891.88	J/molxK	941.44	Joback Method
cpg	903.93	J/molxK	975.14	Joback Method
cpg	914.81	J/molxK	1008.84	Joback Method
cpg	924.54	J/molxK	1042.54	Joback Method
dvisc	0.0005184	Paxs	494.38	Joback Method
dvisc	0.0002763	Paxs	552.04	Joback Method

dvisc	0.0001659	Paxs	609.70	Joback Method
dvisc	0.0001088	Paxs	667.36	Joback Method
dvisc	0.0000763	Paxs	725.02	Joback Method
dvisc	0.0000564	Paxs	782.68	Joback Method
dvisc	0.0000434	Paxs	840.34	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390983&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390983&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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