

# Fumaric acid, 2-methoxyphenyl 2-ethylhexyl ester

Inchi:	InChI=1S/C19H26O5/c1-4-6-9-15(5-2)14-23-18(20)12-13-19(21)24-17-11-8-7-10-16(17)2
InchiKey:	VPEKGMQVBCKKKH-OUKQBFOZSA-N
Formula:	C19H26O5
SMILES:	CCCCC(CC)COC(=O)C=CC(=O)Oc1ccccc1OC
Mol. weight [g/mol]:	334.41

## Physical Properties

Property code	Value	Unit	Source
gf	-283.18	kJ/mol	Joback Method
hf	-720.31	kJ/mol	Joback Method
hfus	42.06	kJ/mol	Joback Method
hvap	81.12	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	3.916		Crippen Method
mcvol	271.260	ml/mol	McGowan Method
pc	1489.58	kPa	Joback Method
rinqol	2397.00		NIST Webbook
tb	844.50	K	Joback Method
tc	1051.13	K	Joback Method
tf	489.30	K	Joback Method
vc	1.032	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	822.17	J/molxK	844.50	Joback Method
cpg	886.52	J/molxK	1016.69	Joback Method
cpg	875.85	J/molxK	982.25	Joback Method
cpg	864.10	J/molxK	947.82	Joback Method
cpg	851.25	J/molxK	913.38	Joback Method
cpg	837.28	J/molxK	878.94	Joback Method
cpg	896.14	J/molxK	1051.13	Joback Method
dvisc	0.0000378	Paxs	844.50	Joback Method
dvisc	0.0000493	Paxs	785.30	Joback Method

dvisc	0.0000669	Paxs	726.10	Joback Method
dvisc	0.0000960	Paxs	666.90	Joback Method
dvisc	0.0001479	Paxs	607.70	Joback Method
dvisc	0.0002499	Paxs	548.50	Joback Method
dvisc	0.0004795	Paxs	489.30	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405934&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405934&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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