

# Fumaric acid, 3,4-dimethoxyphenyl nonyl ester

Inchi:	InChI=1S/C21H30O6/c1-4-5-6-7-8-9-10-15-26-20(22)13-14-21(23)27-17-11-12-18(24-2)
InchiKey:	KXFMBMCMVYNTBU-BUHFOSPRSA-N
Formula:	C21H30O6
SMILES:	CCCCCCCCCOC(=O)C=CC(=O)Oc1ccc(OC)c(OC)c1
Mol. weight [g/mol]:	378.46

## Physical Properties

Property code	Value	Unit	Source
gf	-378.53	kJ/mol	Joback Method
hf	-900.00	kJ/mol	Joback Method
hfus	51.56	kJ/mol	Joback Method
hvap	89.03	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	4.459		Crippen Method
mvol	305.310	ml/mol	McGowan Method
pc	1254.81	kPa	Joback Method
rinpol	2884.00		NIST Webbook
rinpol	2884.00		NIST Webbook
tb	918.10	K	Joback Method
tc	1127.82	K	Joback Method
tf	561.59	K	Joback Method
vc	1.167	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.30	J/molxK	918.10	Joback Method
cpg	1027.37	J/molxK	1092.86	Joback Method
cpg	1018.01	J/molxK	1057.91	Joback Method
cpg	1007.32	J/molxK	1022.96	Joback Method
cpg	995.32	J/molxK	988.01	Joback Method
cpg	981.98	J/molxK	953.05	Joback Method
cpg	1035.41	J/molxK	1127.82	Joback Method
dvisc	0.0000236	Paxs	918.10	Joback Method

dvisc	0.0000300	Paxs	858.68	Joback Method
dvisc	0.0000395	Paxs	799.26	Joback Method
dvisc	0.0000543	Paxs	739.84	Joback Method
dvisc	0.0000790	Paxs	680.43	Joback Method
dvisc	0.0001235	Paxs	621.01	Joback Method
dvisc	0.0002122	Paxs	561.59	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348172&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348172&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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