

# Fumaric acid, monoamide, N-methyl-N-phenyl-, 3,4-dimethylphenyl ester

<b>Inchi:</b>	InChI=1S/C19H19NO3/c1-14-9-10-17(13-15(14)2)23-19(22)12-11-18(21)20(3)16-7-5-4-6
<b>InchiKey:</b>	GPPJTWMHWDWGNZ-VAWYXSNFSA-N
<b>Formula:</b>	C19H19NO3
<b>SMILES:</b>	<chem>Cc1ccc(OC(=O)C=CC(=O)N(C)c2ccccc2)cc1C</chem>
<b>Mol. weight [g/mol]:</b>	309.36

## Physical Properties

Property code	Value	Unit	Source
gf	142.82	kJ/mol	Joback Method
hf	-158.00	kJ/mol	Joback Method
hfus	39.88	kJ/mol	Joback Method
hvap	81.67	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	3.428		Crippen Method
mcvol	245.740	ml/mol	McGowan Method
pc	1973.55	kPa	Joback Method
rinpola	2764.00		NIST Webbook
tb	844.20	K	Joback Method
tc	1077.17	K	Joback Method
tf	531.25	K	Joback Method
vc	0.911	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	710.37	J/molxK	844.20	Joback Method
cpg	724.50	J/molxK	883.03	Joback Method
cpg	737.47	J/molxK	921.86	Joback Method
cpg	749.37	J/molxK	960.69	Joback Method
cpg	760.28	J/molxK	999.51	Joback Method
cpg	770.28	J/molxK	1038.34	Joback Method
cpg	779.44	J/molxK	1077.17	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357431&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357431&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>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>mccvol:</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

Latest version available from:

<https://www.chemeo.com/cid/22-934-0/Fumaric-acid-monoamide-N-methyl-N-phenyl-3-4-dimethylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-27 19:19:11.666270074 +0000 UTC m=+16534800.586847389.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.