

# Fumaric acid, monoamide, N-methyl-N-phenyl-, 2-biphenyl ester

Inchi:	InChI=1S/C23H19NO3/c1-24(19-12-6-3-7-13-19)22(25)16-17-23(26)27-21-15-9-8-14-20
InchiKey:	XXVOJHZYCPTKNX-WUKNDPDISA-N
Formula:	C23H19NO3
SMILES:	CN(C(=O)C=CC(=O)Oc1ccccc1-c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	357.40

## Physical Properties

Property code	Value	Unit	Source
gf	298.54	kJ/mol	Joback Method
hf	7.44	kJ/mol	Joback Method
hfus	44.67	kJ/mol	Joback Method
hvap	92.19	kJ/mol	Joback Method
log10ws	-5.99		Crippen Method
logp	4.478		Crippen Method
mvol	278.340	ml/mol	McGowan Method
pc	1908.57	kPa	Joback Method
rinpol	3063.00		NIST Webbook
rinpol	3063.00		NIST Webbook
tb	957.42	K	Joback Method
tc	1210.52	K	Joback Method
tf	590.23	K	Joback Method
vc	1.028	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	838.27	J/molxK	957.42	Joback Method
cpg	851.17	J/molxK	999.60	Joback Method
cpg	862.93	J/molxK	1041.79	Joback Method
cpg	873.67	J/molxK	1083.97	Joback Method
cpg	883.56	J/molxK	1126.15	Joback Method
cpg	892.73	J/molxK	1168.34	Joback Method
cpg	901.33	J/molxK	1210.52	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357462&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357462&amp;Units=SI</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>hvp:</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>rinp:</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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