

# Fumaric acid, monoamide, N-benzyl-N-phenethyl-, 3,5-difluorophenyl ester

Other names:

Fumaric acid, monoamide, N-benzyl-N-phenethyl-, 3,5-fluorophenyl ester

Inchi: InChI=1S/C25H21F2NO3/c26-21-15-22(27)17-23(16-21)31-25(30)12-11-24(29)28(18-20

InchiKey: XBIHRQSOOJOZQY-VAWYXSNFSA-N

Formula: C25H21F2NO3

SMILES: O=C(C=CC(=O)N(CCc1ccccc1)Cc1ccccc1)Oc1cc(F)cc(F)c1

Mol. weight [g/mol]: 421.44

## Physical Properties

Property code	Value	Unit	Source
gf	-83.87	kJ/mol	Joback Method
hf	-437.53	kJ/mol	Joback Method
hfus	55.62	kJ/mol	Joback Method
hvap	95.67	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	4.698		Crippen Method
mvol	310.060	ml/mol	McGowan Method
pc	1495.35	kPa	Joback Method
rinpol	3246.00		NIST Webbook
rinpol	3246.00		NIST Webbook
tb	1006.70	K	Joback Method
tc	1244.83	K	Joback Method
tf	626.47	K	Joback Method
vc	1.175	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.75	J/molxK	1006.70	Joback Method
cpg	979.97	J/molxK	1046.39	Joback Method
cpg	991.18	J/molxK	1086.08	Joback Method
cpg	1001.51	J/molxK	1125.76	Joback Method
cpg	1011.07	J/molxK	1165.45	Joback Method
cpg	1020.00	J/molxK	1205.14	Joback Method
cpg	1028.43	J/molxK	1244.83	Joback Method

# Sources

<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=U357411&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357411&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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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