

# Fumaric acid, monoamide, N-(4-chlorophenyl)-, 3-fluorophenyl ester

Inchi: InChI=1S/C16H11ClFNO3/c17-11-4-6-13(7-5-11)19-15(20)8-9-16(21)22-14-3-1-2-12(18)

InchiKey: LQWOZUXEHMZBQU-CMDGGOBGSA-N

Formula: C16H11ClFNO3

SMILES: O=C(C=CC(=O)Oc1cccc(F)c1)Nc1ccc(Cl)cc1

Mol. weight [g/mol]: 319.71

## Physical Properties

Property code	Value	Unit	Source
gf	-110.57	kJ/mol	Joback Method
hf	-321.99	kJ/mol	Joback Method
hfus	41.46	kJ/mol	Joback Method
hvap	82.95	kJ/mol	Joback Method
log10ws	-4.51		Crippen Method
logp	3.579		Crippen Method
mcvol	217.480	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
rinpola	2897.00		NIST Webbook
tb	849.99	K	Joback Method
tc	1088.74	K	Joback Method
tf	548.14	K	Joback Method
vc	0.828	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	584.79	J/mol×K	849.99	Joback Method
cpg	595.42	J/mol×K	889.78	Joback Method
cpg	605.04	J/mol×K	929.57	Joback Method
cpg	613.74	J/mol×K	969.37	Joback Method
cpg	621.57	J/mol×K	1009.16	Joback Method
cpg	628.61	J/mol×K	1048.95	Joback Method
cpg	634.92	J/mol×K	1088.74	Joback Method

# Sources

<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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357489&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357489&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>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>rinpola:</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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