

# Glutaric acid, 2-fluorophenyl 4-cyanophenyl ester

<b>Inchi:</b>	InChI=1S/C18H14FNO4/c19-15-4-1-2-5-16(15)24-18(22)7-3-6-17(21)23-14-10-8-13(12-2
<b>InchiKey:</b>	KVYAJCPBAMCFGI-UHFFFAOYSA-N
<b>Formula:</b>	C18H14FNO4
<b>SMILES:</b>	N#Cc1ccc(OC(=O)CCCC(=O)Oc2ccccc2F)cc1
<b>Mol. weight [g/mol]:</b>	327.31

## Physical Properties

Property code	Value	Unit	Source
gf	-223.23	kJ/mol	Joback Method
hf	-485.56	kJ/mol	Joback Method
hfus	39.84	kJ/mol	Joback Method
hvap	89.51	kJ/mol	Joback Method
log10ws	-4.85		Crippen Method
logp	3.379		Crippen Method
mcvol	234.990	ml/mol	McGowan Method
pc	1903.58	kPa	Joback Method
rinpola	2674.00		NIST Webbook
rinpola	2674.00		NIST Webbook
tb	928.49	K	Joback Method
tc	1161.78	K	Joback Method
tf	580.40	K	Joback Method
vc	0.919	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	686.48	J/molxK	928.49	Joback Method
cpg	696.19	J/molxK	967.37	Joback Method
cpg	704.72	J/molxK	1006.25	Joback Method
cpg	712.09	J/molxK	1045.13	Joback Method
cpg	718.35	J/molxK	1084.02	Joback Method
cpg	723.50	J/molxK	1122.90	Joback Method
cpg	727.59	J/molxK	1161.78	Joback Method

# Sources

<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=U393275&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393275&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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