

# Fumaric acid, 2,4,4-trimethylpentyl 2-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C18H23FO4/c1-13(11-18(2,3)4)12-22-16(20)9-10-17(21)23-15-8-6-5-7-14(15)
<b>InchiKey:</b>	PLUYXWWNOGFGMW-MDZDMXLPSA-N
<b>Formula:</b>	C18H23FO4
<b>SMILES:</b>	CC(COC(=O)C=CC(=O)Oc1ccccc1F)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	322.37

## Physical Properties

Property code	Value	Unit	Source
gf	-378.57	kJ/mol	Joback Method
hf	-772.31	kJ/mol	Joback Method
hfus	33.95	kJ/mol	Joback Method
hvap	74.37	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	3.903		Crippen Method
mcvol	253.070	ml/mol	McGowan Method
pc	1594.89	kPa	Joback Method
rinpol	2111.00		NIST Webbook
rinpol	2111.00		NIST Webbook
tb	795.24	K	Joback Method
tc	1004.01	K	Joback Method
tf	458.81	K	Joback Method
vc	0.965	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	745.46	J/molxK	795.24	Joback Method
cpg	760.54	J/molxK	830.04	Joback Method
cpg	774.56	J/molxK	864.83	Joback Method
cpg	787.57	J/molxK	899.63	Joback Method
cpg	799.63	J/molxK	934.42	Joback Method
cpg	810.78	J/molxK	969.22	Joback Method
cpg	821.08	J/molxK	1004.01	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405607&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405607&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>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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