

# Terephthalic acid, ethyl 4-fluoro-2-methoxyphenyl ester

Inchi:	InChI=1S/C17H15FO5/c1-3-22-16(19)11-4-6-12(7-5-11)17(20)23-14-9-8-13(18)10-15(14)
InchiKey:	QCPQEYVJEAGUKL-UHFFFAOYSA-N
Formula:	C17H15FO5
SMILES:	CCOC(=O)c1ccc(C(=O)Oc2ccc(F)cc2OC)cc1
Mol. weight [g/mol]:	318.30

## Physical Properties

Property code	Value	Unit	Source
gf	-479.46	kJ/mol	Joback Method
hf	-773.49	kJ/mol	Joback Method
hfus	36.54	kJ/mol	Joback Method
hvap	79.88	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	3.230		Crippen Method
mvol	225.390	ml/mol	McGowan Method
pc	2060.49	kPa	Joback Method
rinpol	2498.00		NIST Webbook
rinpol	2498.00		NIST Webbook
tb	830.93	K	Joback Method
tc	1054.15	K	Joback Method
tf	538.89	K	Joback Method
vc	0.856	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	643.93	J/mol×K	830.93	Joback Method
cpg	656.37	J/mol×K	868.13	Joback Method
cpg	667.62	J/mol×K	905.34	Joback Method
cpg	677.66	J/mol×K	942.54	Joback Method
cpg	686.51	J/mol×K	979.74	Joback Method
cpg	694.14	J/mol×K	1016.95	Joback Method
cpg	700.56	J/mol×K	1054.15	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415827&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415827&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.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>

# 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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