

# Isophthalic acid, 2-fluorophenyl pentadecyl ester

Inchi:	InChI=1S/C29H39FO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-16-22-33-28(31)24-18-17-19-25(2)
InchiKey:	UYUGOYUPLINPMO-UHFFFAOYSA-N
Formula:	C29H39FO4
SMILES:	CCCCCCCCCCCCCOC(=O)c1cccc(C(=O)Oc2ccccc2F)c1
Mol. weight [g/mol]:	470.62

## Physical Properties

Property code	Value	Unit	Source
gf	-263.79	kJ/mol	Joback Method
hf	-877.48	kJ/mol	Joback Method
hfus	66.82	kJ/mol	Joback Method
hvap	103.52	kJ/mol	Joback Method
log10ws	-9.99		Crippen Method
logp	8.293		Crippen Method
mvol	388.600	ml/mol	McGowan Method
pc	905.61	kPa	Joback Method
rinpol	3622.00		NIST Webbook
rinpol	3622.00		NIST Webbook
tb	1078.09	K	Joback Method
tc	1322.44	K	Joback Method
tf	639.38	K	Joback Method
vc	1.510	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1327.76	J/molxK	1078.09	Joback Method
cpg	1342.44	J/molxK	1118.81	Joback Method
cpg	1355.38	J/molxK	1159.54	Joback Method
cpg	1366.66	J/molxK	1200.26	Joback Method
cpg	1376.38	J/molxK	1240.99	Joback Method
cpg	1384.62	J/molxK	1281.71	Joback Method
cpg	1391.47	J/molxK	1322.44	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=U344663&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344663&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>
<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>

# 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>h vap:</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>r in pol:</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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