

# Isophthalic acid, 3,5-difluorophenyl pentadecyl ester

<b>Inchi:</b>	InChI=1S/C29H38F2O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-18-34-28(32)23-16-15-17-24
<b>InchiKey:</b>	MEABUHUEEOJIGR-UHFFFAOYSA-N
<b>Formula:</b>	C29H38F2O4
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)c1cccc(C(=O)Oc2cc(F)cc(F)c2)c1
<b>Mol. weight [g/mol]:</b>	488.61

## Physical Properties

Property code	Value	Unit	Source
gf	-468.23	kJ/mol	Joback Method
hf	-1085.06	kJ/mol	Joback Method
hfus	69.52	kJ/mol	Joback Method
hvap	103.36	kJ/mol	Joback Method
log10ws	-10.32		Crippen Method
logp	8.432		Crippen Method
mvol	390.370	ml/mol	McGowan Method
pc	873.77	kPa	Joback Method
rinpol	3526.00		NIST Webbook
rinpol	3526.00		NIST Webbook
tb	1082.34	K	Joback Method
tc	1330.36	K	Joback Method
tf	652.49	K	Joback Method
vc	1.528	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1332.99	J/mol×K	1082.34	Joback Method
cpg	1347.42	J/mol×K	1123.68	Joback Method
cpg	1360.02	J/mol×K	1165.01	Joback Method
cpg	1370.87	J/mol×K	1206.35	Joback Method
cpg	1380.06	J/mol×K	1247.69	Joback Method
cpg	1387.66	J/mol×K	1289.02	Joback Method
cpg	1393.76	J/mol×K	1330.36	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=U344380&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344380&amp;Units=SI</a>
<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>

# 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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