

# Isophthalic acid, 3,5-difluorophenyl decyl ester

Inchi:	InChI=1S/C24H28F2O4/c1-2-3-4-5-6-7-8-9-13-29-23(27)18-11-10-12-19(14-18)24(28)30
InchiKey:	OSOYDPGHCHPSOZ-UHFFFAOYSA-N
Formula:	C24H28F2O4
SMILES:	CCCCCCCCCOC(=O)c1cccc(C(=O)Oc2cc(F)cc(F)c2)c1
Mol. weight [g/mol]:	418.47

## Physical Properties

Property code	Value	Unit	Source
gf	-510.33	kJ/mol	Joback Method
hf	-981.86	kJ/mol	Joback Method
hfus	56.56	kJ/mol	Joback Method
hvap	92.23	kJ/mol	Joback Method
log10ws	-8.23		Crippen Method
logp	6.481		Crippen Method
mvol	319.920	ml/mol	McGowan Method
pc	1186.60	kPa	Joback Method
rinpol	2896.00		NIST Webbook
rinpol	2896.00		NIST Webbook
tb	967.94	K	Joback Method
tc	1187.08	K	Joback Method
tf	596.14	K	Joback Method
vc	1.248	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1028.50	J/molxK	967.94	Joback Method
cpg	1042.11	J/molxK	1004.46	Joback Method
cpg	1054.36	J/molxK	1040.99	Joback Method
cpg	1065.28	J/molxK	1077.51	Joback Method
cpg	1074.91	J/molxK	1114.04	Joback Method
cpg	1083.29	J/molxK	1150.56	Joback Method
cpg	1090.47	J/molxK	1187.08	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=U344377&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344377&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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