

# Isophthalic acid, 3,5-difluorophenyl dodecyl ester

Inchi:	InChI=1S/C26H32F2O4/c1-2-3-4-5-6-7-8-9-10-11-15-31-25(29)20-13-12-14-21(16-20)26
InchiKey:	ZGKXHRKLZBOLLT-UHFFFAOYSA-N
Formula:	C26H32F2O4
SMILES:	CCCCCCCCCCCCOC(=O)c1cccc(C(=O)Oc2cc(F)cc(F)c2)c1
Mol. weight [g/mol]:	446.53

## Physical Properties

Property code	Value	Unit	Source
gf	-493.49	kJ/mol	Joback Method
hf	-1023.14	kJ/mol	Joback Method
hfus	61.74	kJ/mol	Joback Method
hvap	96.69	kJ/mol	Joback Method
log10ws	-9.07		Crippen Method
logp	7.262		Crippen Method
mcvol	348.100	ml/mol	McGowan Method
pc	1043.95	kPa	Joback Method
rinpol	3195.00		NIST Webbook
tb	1013.70	K	Joback Method
tc	1241.05	K	Joback Method
tf	618.68	K	Joback Method
vc	1.359	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1149.11	J/molxK	1013.70	Joback Method
cpg	1163.01	J/molxK	1051.59	Joback Method
cpg	1175.39	J/molxK	1089.48	Joback Method
cpg	1186.32	J/molxK	1127.38	Joback Method
cpg	1195.83	J/molxK	1165.27	Joback Method
cpg	1203.99	J/molxK	1203.16	Joback Method
cpg	1210.84	J/molxK	1241.05	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=U344379&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344379&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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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