

# Isophthalic acid, dodecyl pentafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C27H31F5O4/c1-2-3-4-5-6-7-8-9-10-11-15-35-26(33)18-13-12-14-19(16-18)27
<b>InchiKey:</b>	IAPMZCROTUITGB-UHFFFAOYSA-N
<b>Formula:</b>	C27H31F5O4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1cccc(C(=O)OCc2c(F)c(F)c(F)c(F)c2F)c1
<b>Mol. weight [g/mol]:</b>	514.52

## Physical Properties

Property code	Value	Unit	Source
gf	-1098.39	kJ/mol	Joback Method
hf	-1666.52	kJ/mol	Joback Method
hfus	72.41	kJ/mol	Joback Method
hvap	98.45	kJ/mol	Joback Method
log10ws	-10.33		Crippen Method
logp	7.817		Crippen Method
mcvol	367.500	ml/mol	McGowan Method
pc	880.00	kPa	Joback Method
rinpol	3210.00		NIST Webbook
tb	1049.33	K	Joback Method
tc	1292.58	K	Joback Method
tf	669.28	K	Joback Method
vc	1.470	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1226.24	J/molxK	1049.33	Joback Method
cpg	1239.64	J/molxK	1089.87	Joback Method
cpg	1251.19	J/molxK	1130.41	Joback Method
cpg	1260.94	J/molxK	1170.96	Joback Method
cpg	1268.93	J/molxK	1211.50	Joback Method
cpg	1275.22	J/molxK	1252.04	Joback Method
cpg	1279.83	J/molxK	1292.58	Joback Method

# Sources

<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>
<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=U344511&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344511&amp;Units=SI</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>hvap:</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>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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