

# Phthalic acid, dodecyl pentafluorophenyl ester

<b>Inchi:</b>	InChI=1S/C26H29F5O4/c1-2-3-4-5-6-7-8-9-10-13-16-34-25(32)17-14-11-12-15-18(17)26
<b>InchiKey:</b>	ZRFGANAQUQVLKJ-UHFFFAOYSA-N
<b>Formula:</b>	C26H29F5O4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1ccccc1C(=O)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	500.50

## Physical Properties

Property code	Value	Unit	Source
gf	-1106.81	kJ/mol	Joback Method
hf	-1645.88	kJ/mol	Joback Method
hfus	69.82	kJ/mol	Joback Method
hvap	96.22	kJ/mol	Joback Method
log10ws	-10.06		Crippen Method
logp	7.679		Crippen Method
mvol	353.410	ml/mol	McGowan Method
pc	932.35	kPa	Joback Method
rinpol	2830.00		NIST Webbook
rinpol	2830.00		NIST Webbook
tb	1026.45	K	Joback Method
tc	1260.80	K	Joback Method
tf	658.01	K	Joback Method
vc	1.413	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1165.69	J/mol×K	1026.45	Joback Method
cpg	1178.86	J/mol×K	1065.51	Joback Method
cpg	1190.34	J/mol×K	1104.57	Joback Method
cpg	1200.18	J/mol×K	1143.63	Joback Method
cpg	1208.39	J/mol×K	1182.69	Joback Method
cpg	1215.02	J/mol×K	1221.75	Joback Method
cpg	1220.11	J/mol×K	1260.80	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=U356357&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356357&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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