

# Phthalic acid, pentafluorophenyl tetradecyl ester

<b>Inchi:</b>	InChI=1S/C28H33F5O4/c1-2-3-4-5-6-7-8-9-10-11-12-15-18-36-27(34)19-16-13-14-17-20
<b>InchiKey:</b>	XFRJTXVMAKMMFD-UHFFFAOYSA-N
<b>Formula:</b>	C28H33F5O4
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)c1cccc1C(=O)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	528.55

## Physical Properties

Property code	Value	Unit	Source
gf	-1089.97	kJ/mol	Joback Method
hf	-1687.16	kJ/mol	Joback Method
hfus	75.00	kJ/mol	Joback Method
hvap	100.67	kJ/mol	Joback Method
log10ws	-10.90		Crippen Method
logp	8.459		Crippen Method
mvol	381.590	ml/mol	McGowan Method
pc	831.94	kPa	Joback Method
rmpol	3047.00		NIST Webbook
tb	1072.21	K	Joback Method
tc	1325.72	K	Joback Method
tf	680.55	K	Joback Method
vc	1.526	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1287.11	J/molxK	1072.21	Joback Method
cpg	1300.73	J/molxK	1114.46	Joback Method
cpg	1312.33	J/molxK	1156.71	Joback Method
cpg	1321.95	J/molxK	1198.96	Joback Method
cpg	1329.66	J/molxK	1241.21	Joback Method
cpg	1335.51	J/molxK	1283.46	Joback Method
cpg	1339.55	J/molxK	1325.72	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=U356363&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356363&amp;Units=SI</a>
<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>

# 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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