

# Phthalic acid, ethyl pentafluorophenyl ester

<b>Inchi:</b>	InChI=1S/C16H9F5O4/c1-2-24-15(22)7-5-3-4-6-8(7)16(23)25-14-12(20)10(18)9(17)11(19)
<b>InchiKey:</b>	WKLCYLCSZYJOJG-UHFFFAOYSA-N
<b>Formula:</b>	C16H9F5O4
<b>SMILES:</b>	CCOC(=O)c1ccccc1C(=O)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	360.23

## Physical Properties

Property code	Value	Unit	Source
gf	-1191.01	kJ/mol	Joback Method
hf	-1439.48	kJ/mol	Joback Method
hfus	43.92	kJ/mol	Joback Method
hvap	73.96	kJ/mol	Joback Method
log10ws	-5.88		Crippen Method
logp	3.778		Crippen Method
mcvol	212.510	ml/mol	McGowan Method
pc	1865.94	kPa	Joback Method
rinsol	1898.00		NIST Webbook
tb	797.65	K	Joback Method
tc	999.58	K	Joback Method
tf	545.31	K	Joback Method
vc	0.854	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.78	J/mol×K	797.65	Joback Method
cpg	600.27	J/mol×K	831.31	Joback Method
cpg	609.90	J/mol×K	864.96	Joback Method
cpg	618.67	J/mol×K	898.62	Joback Method
cpg	626.58	J/mol×K	932.27	Joback Method
cpg	633.63	J/mol×K	965.93	Joback Method
cpg	639.81	J/mol×K	999.58	Joback Method

# Sources

<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=U356188&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356188&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mccvol:</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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