

# Phthalic acid, hexyl 2,3,4,5-tetrafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C21H20F4O4/c1-2-3-4-7-10-28-20(26)14-8-5-6-9-15(14)21(27)29-12-13-11-16
<b>InchiKey:</b>	BOPCDMJUVHYXRB-UHFFFAOYSA-N
<b>Formula:</b>	C21H20F4O4
<b>SMILES:</b>	CCCCCOC(=O)c1ccccc1C(=O)OCc1cc(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	412.37

## Physical Properties

Property code	Value	Unit	Source
gf	-944.47	kJ/mol	Joback Method
hf	-1335.10	kJ/mol	Joback Method
hfus	54.18	kJ/mol	Joback Method
hvap	85.25	kJ/mol	Joback Method
log10ws	-7.49		Crippen Method
logp	5.337		Crippen Method
mcvol	281.190	ml/mol	McGowan Method
pc	1336.86	kPa	Joback Method
rinpol	2406.00		NIST Webbook
rinpol	2406.00		NIST Webbook
tb	907.80	K	Joback Method
tc	1116.31	K	Joback Method
tf	588.55	K	Joback Method
vc	1.115	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	863.55	J/mol×K	907.80	Joback Method
cpg	875.92	J/mol×K	942.55	Joback Method
cpg	887.11	J/mol×K	977.30	Joback Method
cpg	897.16	J/mol×K	1012.05	Joback Method
cpg	906.07	J/mol×K	1046.80	Joback Method
cpg	913.87	J/mol×K	1081.55	Joback Method
cpg	920.55	J/mol×K	1116.31	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U377729&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377729&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>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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