

# Phthalic acid, di(2,4,5-trifluorobenzyl) ester

**Inchi:** InChI=1S/C22H12F6O4/c23-15-7-19(27)17(25)5-11(15)9-31-21(29)13-3-1-2-4-14(13)22(14)1-2  
**InchiKey:** XWTYXZKXXHJUFS-UHFFFAOYSA-N  
**Formula:** C22H12F6O4  
**SMILES:** O=C(OCc1cc(F)c(F)cc1F)c1ccccc1C(=O)OCc1cc(F)c(F)cc1F  
**Mol. weight [g/mol]:** 454.32

## Physical Properties

Property code	Value	Unit	Source
gf	-1232.52	kJ/mol	Joback Method
hf	-1534.37	kJ/mol	Joback Method
hfus	56.19	kJ/mol	Joback Method
hvap	89.44	kJ/mol	Joback Method
log10ws	-8.17		Crippen Method
logp	5.235		Crippen Method
mvol	275.060	ml/mol	McGowan Method
pc	1456.79	kPa	Joback Method
rinpol	2992.00		NIST Webbook
rinpol	2992.00		NIST Webbook
tb	965.86	K	Joback Method
tc	1187.70	K	Joback Method
tf	652.46	K	Joback Method
vc	1.099	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	826.46	J/mol×K	965.86	Joback Method
cpg	835.59	J/mol×K	1002.83	Joback Method
cpg	843.46	J/mol×K	1039.81	Joback Method
cpg	850.10	J/mol×K	1076.78	Joback Method
cpg	855.51	J/mol×K	1113.75	Joback Method
cpg	859.73	J/mol×K	1150.73	Joback Method
cpg	862.75	J/mol×K	1187.70	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=U415508&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415508&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>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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