

# Phthalic acid, hept-2-yl 2,4,5-trifluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C22H23F3O4/c1-3-4-5-8-14(2)29-22(27)17-10-7-6-9-16(17)21(26)28-13-15-11
<b>InchiKey:</b>	NNNIGNNTFPLQCD-UHFFFAOYSA-N
<b>Formula:</b>	C22H23F3O4
<b>SMILES:</b>	CCCCC(C)OC(=O)c1ccccc1C(=O)OCc1cc(F)c(F)cc1F
<b>Mol. weight [g/mol]:</b>	408.41

## Physical Properties

Property code	Value	Unit	Source
gf	-734.05	kJ/mol	Joback Method
hf	-1153.44	kJ/mol	Joback Method
hfus	50.55	kJ/mol	Joback Method
hvap	87.24	kJ/mol	Joback Method
log10ws	-7.68		Crippen Method
logp	5.586		Crippen Method
mvol	293.510	ml/mol	McGowan Method
pc	1309.90	kPa	Joback Method
rinpol	2563.00		NIST Webbook
rinpol	2563.00		NIST Webbook
tb	925.99	K	Joback Method
tc	1139.66	K	Joback Method
tf	571.71	K	Joback Method
vc	1.147	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	916.37	J/molxK	925.99	Joback Method
cpg	929.34	J/molxK	961.60	Joback Method
cpg	941.04	J/molxK	997.21	Joback Method
cpg	951.50	J/molxK	1032.82	Joback Method
cpg	960.75	J/molxK	1068.44	Joback Method
cpg	968.80	J/molxK	1104.05	Joback Method
cpg	975.69	J/molxK	1139.66	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=U415495&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415495&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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