

# Phthalic acid, isobutyl 4-trifluoromethoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C20H19F3O5/c1-13(2)11-26-18(24)16-5-3-4-6-17(16)19(25)27-12-14-7-9-15(1
<b>InchiKey:</b>	XMPGFYPPGGRSAEO-UHFFFAOYSA-N
<b>Formula:</b>	C20H19F3O5
<b>SMILES:</b>	CC(C)COC(=O)c1ccccc1C(=O)OCc1ccc(OC(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	396.36

## Physical Properties

Property code	Value	Unit	Source
gf	-833.79	kJ/mol	Joback Method
hf	-1230.19	kJ/mol	Joback Method
hfus	39.92	kJ/mol	Joback Method
hvap	82.58	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	4.755		Crippen Method
mcvol	271.200	ml/mol	McGowan Method
pc	1551.22	kPa	Joback Method
rinpol	2245.00		NIST Webbook
rinpol	2245.00		NIST Webbook
tb	889.46	K	Joback Method
tc	1105.60	K	Joback Method
tf	548.78	K	Joback Method
vc	1.042	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	830.74	J/mol×K	889.46	Joback Method
cpg	843.09	J/mol×K	925.48	Joback Method
cpg	854.21	J/mol×K	961.51	Joback Method
cpg	864.13	J/mol×K	997.53	Joback Method
cpg	872.90	J/mol×K	1033.55	Joback Method
cpg	880.55	J/mol×K	1069.57	Joback Method
cpg	887.11	J/mol×K	1105.60	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=U377685&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377685&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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