

# Phthalic acid, 4-trifluoromethoxybenzyl undecyl ester

<b>Inchi:</b>	InChI=1S/C27H33F3O5/c1-2-3-4-5-6-7-8-9-12-19-33-25(31)23-13-10-11-14-24(23)26(32)
<b>InchiKey:</b>	ZOLPZHCGWFVMAC-UHFFFAOYSA-N
<b>Formula:</b>	C27H33F3O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1cccc1C(=O)OCc1ccc(OC(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	494.54

## Physical Properties

Property code	Value	Unit	Source
gf	-772.41	kJ/mol	Joback Method
hf	-1369.39	kJ/mol	Joback Method
hfus	61.58	kJ/mol	Joback Method
hvap	98.55	kJ/mol	Joback Method
log10ws	-9.53		Crippen Method
logp	7.630		Crippen Method
mcvol	369.830	ml/mol	McGowan Method
pc	965.07	kPa	Joback Method
rinpol	2989.00		NIST Webbook
rinpol	2989.00		NIST Webbook
tb	1050.06	K	Joback Method
tc	1286.87	K	Joback Method
tf	642.67	K	Joback Method
vc	1.440	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1244.61	J/mol×K	1050.06	Joback Method
cpg	1257.86	J/mol×K	1089.53	Joback Method
cpg	1269.52	J/mol×K	1129.00	Joback Method
cpg	1279.66	J/mol×K	1168.46	Joback Method
cpg	1288.36	J/mol×K	1207.93	Joback Method
cpg	1295.71	J/mol×K	1247.40	Joback Method
cpg	1301.77	J/mol×K	1286.87	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377693&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377693&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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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