

# Terephthalic acid, butyl 4-trifluoromethoxybenzyl ester

Inchi:	InChI=1S/C20H19F3O5/c1-2-3-12-26-18(24)15-6-8-16(9-7-15)19(25)27-13-14-4-10-17(1
InchiKey:	GCJVKCAERDMRLW-UHFFFAOYSA-N
Formula:	C20H19F3O5
SMILES:	CCCCOC(=O)c1ccc(C(=O)OCc2ccc(OC(F)(F)F)cc2)cc1
Mol. weight [g/mol]:	396.36

## Physical Properties

Property code	Value	Unit	Source
gf	-831.35	kJ/mol	Joback Method
hf	-1224.91	kJ/mol	Joback Method
hfus	43.45	kJ/mol	Joback Method
hvap	82.97	kJ/mol	Joback Method
log10ws	-6.60		Crippen Method
logp	4.899		Crippen Method
mcvol	271.200	ml/mol	McGowan Method
pc	1541.49	kPa	Joback Method
rinpol	2571.00		NIST Webbook
rinpol	2571.00		NIST Webbook
tb	889.90	K	Joback Method
tc	1103.99	K	Joback Method
tf	563.78	K	Joback Method
vc	1.048	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	830.20	J/mol×K	889.90	Joback Method
cpg	842.46	J/mol×K	925.58	Joback Method
cpg	853.53	J/mol×K	961.26	Joback Method
cpg	863.44	J/mol×K	996.95	Joback Method
cpg	872.22	J/mol×K	1032.63	Joback Method
cpg	879.92	J/mol×K	1068.31	Joback Method
cpg	886.56	J/mol×K	1103.99	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=U415976&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415976&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>

# 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>hvap:</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>rinpola:</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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