

# Terephthalic acid, butyl 2,3,4-trifluorophenyl ester

Inchi:	InChI=1S/C18H15F3O4/c1-2-3-10-24-17(22)11-4-6-12(7-5-11)18(23)25-14-9-8-13(19)15
InchiKey:	IEDKWUCDFNDVGY-UHFFFAOYSA-N
Formula:	C18H15F3O4
SMILES:	CCCCOC(=O)c1ccc(C(=O)Oc2ccc(F)c(F)c2F)cc1
Mol. weight [g/mol]:	352.30

## Physical Properties

Property code	Value	Unit	Source
gf	-765.29	kJ/mol	Joback Method
hf	-1065.60	kJ/mol	Joback Method
hfus	43.72	kJ/mol	Joback Method
hvap	78.72	kJ/mol	Joback Method
log10ws	-6.05		Crippen Method
logp	4.280		Crippen Method
mcvol	237.150	ml/mol	McGowan Method
pc	1755.07	kPa	Joback Method
rinpola	2511.00		NIST Webbook
rinpola	2511.00		NIST Webbook
tb	834.91	K	Joback Method
tc	1045.07	K	Joback Method
tf	541.63	K	Joback Method
vc	0.929	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	686.90	J/molxK	834.91	Joback Method
cpg	699.03	J/molxK	869.94	Joback Method
cpg	710.11	J/molxK	904.96	Joback Method
cpg	720.16	J/molxK	939.99	Joback Method
cpg	729.18	J/molxK	975.02	Joback Method
cpg	737.20	J/molxK	1010.04	Joback Method
cpg	744.21	J/molxK	1045.07	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415800&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415800&amp;Units=SI</a>
<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.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>

# 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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