

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

Inchi:	InChI=1S/C15H9F3O4/c1-21-14(19)8-2-4-9(5-3-8)15(20)22-11-7-6-10(16)12(17)13(11)18
InchiKey:	QRBPJEAKFBBPQY-UHFFFAOYSA-N
Formula:	C15H9F3O4
SMILES:	<chem>COC(=O)c1ccc(C(=O)Oc2ccc(F)c(F)c2F)cc1</chem>
Mol. weight [g/mol]:	310.22

## Physical Properties

Property code	Value	Unit	Source
gf	-790.55	kJ/mol	Joback Method
hf	-1003.68	kJ/mol	Joback Method
hfus	35.95	kJ/mol	Joback Method
hvap	72.05	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	3.110		Crippen Method
mcvol	194.880	ml/mol	McGowan Method
pc	2269.73	kPa	Joback Method
rinpol	2249.00		NIST Webbook
tb	766.27	K	Joback Method
tc	981.75	K	Joback Method
tf	507.82	K	Joback Method
vc	0.761	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.16	J/mol×K	766.27	Joback Method
cpg	535.31	J/mol×K	802.18	Joback Method
cpg	545.53	J/mol×K	838.10	Joback Method
cpg	554.83	J/mol×K	874.01	Joback Method
cpg	563.22	J/mol×K	909.92	Joback Method
cpg	570.69	J/mol×K	945.83	Joback Method
cpg	577.25	J/mol×K	981.75	Joback Method

# Sources

<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=U415798&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415798&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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