

# 2,3,4-Trifluorobenzoic acid, 3-methylphenyl ester

Inchi:	InChI=1S/C14H9F3O2/c1-8-3-2-4-9(7-8)19-14(18)10-5-6-11(15)13(17)12(10)16/h2-7H,1
InchiKey:	DCACKVNSSVKRSY-UHFFFAOYSA-N
Formula:	C14H9F3O2
SMILES:	<chem>Cc1cccc(OC(=O)c2ccc(F)c(F)c2F)c1</chem>
Mol. weight [g/mol]:	266.22

## Physical Properties

Property code	Value	Unit	Source
gf	-565.05	kJ/mol	Joback Method
hf	-738.24	kJ/mol	Joback Method
hfus	30.57	kJ/mol	Joback Method
hvap	60.66	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	3.632		Crippen Method
mvol	173.350	ml/mol	McGowan Method
pc	2381.86	kPa	Joback Method
rinpol	1693.00		NIST Webbook
rinpol	1693.00		NIST Webbook
tb	667.10	K	Joback Method
tc	881.67	K	Joback Method
tf	424.39	K	Joback Method
vc	0.681	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	436.00	J/mol×K	667.10	Joback Method
cpg	448.44	J/mol×K	702.86	Joback Method
cpg	460.05	J/mol×K	738.62	Joback Method
cpg	470.83	J/mol×K	774.38	Joback Method
cpg	480.82	J/mol×K	810.15	Joback Method
cpg	490.03	J/mol×K	845.91	Joback Method
cpg	498.46	J/mol×K	881.67	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308030&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308030&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

Latest version available from:

<https://www.chemeo.com/cid/119-251-1/2-3-4-Trifluorobenzoic-acid-3-methylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-29 23:33:17.669851461 +0000 UTC m=+16722846.590428773.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.