

# 2,5-Di(trifluoromethyl)benzoic acid, 4-chloro-2-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C16H9ClF6O2/c1-8-6-10(17)3-5-13(8)25-14(24)11-7-9(15(18,19)20)2-4-12(11)
<b>InchiKey:</b>	PRRCJZVSHWUJFH-UHFFFAOYSA-N
<b>Formula:</b>	C16H9ClF6O2
<b>SMILES:</b>	<chem>Cc1cc(Cl)ccc1OC(=O)c1cc(C(F)(F)F)ccc1C(F)(F)F</chem>
<b>Mol. weight [g/mol]:</b>	382.69

## Physical Properties

Property code	Value	Unit	Source
gf	-1138.89	kJ/mol	Joback Method
hf	-1401.09	kJ/mol	Joback Method
hfus	34.36	kJ/mol	Joback Method
hvap	64.46	kJ/mol	Joback Method
log10ws	-6.93		Crippen Method
logp	5.905		Crippen Method
mcvol	219.080	ml/mol	McGowan Method
pc	1772.85	kPa	Joback Method
rinpol	1797.00		NIST Webbook
tb	741.64	K	Joback Method
tc	949.09	K	Joback Method
tf	483.46	K	Joback Method
vc	0.875	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	591.97	J/molxK	741.64	Joback Method
cpg	603.23	J/molxK	776.21	Joback Method
cpg	613.58	J/molxK	810.79	Joback Method
cpg	623.07	J/molxK	845.36	Joback Method
cpg	631.77	J/molxK	879.94	Joback Method
cpg	639.74	J/molxK	914.51	Joback Method
cpg	647.05	J/molxK	949.09	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357370&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357370&amp;Units=SI</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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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/30-838-8/2-5-Di-trifluoromethyl-benzoic-acid-4-chloro-2-methylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-28 14:03:52.832909864 +0000 UTC m=+16602281.753487180.

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