

# 2,5-Di(trifluoromethyl)benzoic acid, pentyl ester

Inchi:	InChI=1S/C14H14F6O2/c1-2-3-4-7-22-12(21)10-8-9(13(15,16)17)5-6-11(10)14(18,19)20
InchiKey:	WGXUBPDVMRWRAC-UHFFFAOYSA-N
Formula:	C14H14F6O2
SMILES:	CCCCCOC(=O)c1cc(C(F)(F)F)ccc1C(F)(F)F
Mol. weight [g/mol]:	328.25

## Physical Properties

Property code	Value	Unit	Source
gf	-1236.95	kJ/mol	Joback Method
hf	-1557.66	kJ/mol	Joback Method
hfus	31.72	kJ/mol	Joback Method
hvap	52.02	kJ/mol	Joback Method
log10ws	-5.60		Crippen Method
logp	5.071		Crippen Method
mcvol	202.420	ml/mol	McGowan Method
pc	1670.06	kPa	Joback Method
rinpol	1364.00		NIST Webbook
rinpol	1364.00		NIST Webbook
tb	621.81	K	Joback Method
tc	796.67	K	Joback Method
tf	379.54	K	Joback Method
vc	0.822	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	547.98	J/molxK	621.81	Joback Method
cpg	561.36	J/molxK	650.95	Joback Method
cpg	573.93	J/molxK	680.10	Joback Method
cpg	585.74	J/molxK	709.24	Joback Method
cpg	596.83	J/molxK	738.38	Joback Method
cpg	607.23	J/molxK	767.52	Joback Method
cpg	616.98	J/molxK	796.67	Joback Method

# Sources

<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=U338937&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338937&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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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