

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

<b>Inchi:</b>	InChI=1S/C18H14F6O2/c1-10(2)11-3-6-13(7-4-11)26-16(25)14-9-12(17(19,20)21)5-8-15
<b>InchiKey:</b>	VBTOTMSSWKIZKW-UHFFFAOYSA-N
<b>Formula:</b>	C18H14F6O2
<b>SMILES:</b>	CC(C)c1ccc(OC(=O)c2cc(C(F)(F)F)ccc2C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	376.29

## Physical Properties

Property code	Value	Unit	Source
gf	-1102.93	kJ/mol	Joback Method
hf	-1420.44	kJ/mol	Joback Method
hfus	32.21	kJ/mol	Joback Method
hvap	63.47	kJ/mol	Joback Method
log10ws	-6.95		Crippen Method
logp	6.067		Crippen Method
mcvol	235.020	ml/mol	McGowan Method
pc	1591.08	kPa	Joback Method
rinsol	1814.00		NIST Webbook
tb	744.55	K	Joback Method
tc	946.71	K	Joback Method
tf	448.56	K	Joback Method
vc	0.931	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	675.61	J/mol×K	744.55	Joback Method
cpg	689.06	J/mol×K	778.24	Joback Method
cpg	701.48	J/mol×K	811.94	Joback Method
cpg	712.96	J/mol×K	845.63	Joback Method
cpg	723.54	J/mol×K	879.32	Joback Method
cpg	733.31	J/mol×K	913.02	Joback Method
cpg	742.33	J/mol×K	946.71	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=U357371&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357371&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

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