

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

**Inchi:** InChI=1S/C15H16F6O2/c1-2-3-4-5-8-23-13(22)11-9-10(14(16,17)18)6-7-12(11)15(19,20)  
**InchiKey:** MJGZUTPPEGZCSK-UHFFFAOYSA-N  
**Formula:** C15H16F6O2  
**SMILES:** CCCCCCOC(=O)c1cc(C(F)(F)F)ccc1C(F)(F)F  
**Mol. weight [g/mol]:** 342.28

## Physical Properties

Property code	Value	Unit	Source
gf	-1228.53	kJ/mol	Joback Method
hf	-1578.30	kJ/mol	Joback Method
hfus	34.31	kJ/mol	Joback Method
hvap	54.25	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	5.461		Crippen Method
mcvol	216.510	ml/mol	McGowan Method
pc	1546.35	kPa	Joback Method
rinpol	1469.00		NIST Webbook
rinpol	1469.00		NIST Webbook
tb	644.69	K	Joback Method
tc	818.80	K	Joback Method
tf	390.81	K	Joback Method
vc	0.877	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	599.47	J/molxK	644.69	Joback Method
cpg	613.28	J/molxK	673.71	Joback Method
cpg	626.28	J/molxK	702.73	Joback Method
cpg	638.51	J/molxK	731.74	Joback Method
cpg	650.00	J/molxK	760.76	Joback Method
cpg	660.78	J/molxK	789.78	Joback Method
cpg	670.91	J/molxK	818.80	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=U338939&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338939&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>hvap:</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>rinpola:</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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