

# 4-Fluoro-2-trifluoromethylbenzoic acid, 2-dimethylaminoethyl ester

<b>Inchi:</b>	InChI=1S/C12H13F4NO2/c1-17(2)5-6-19-11(18)9-4-3-8(13)7-10(9)12(14,15)16/h3-4,7H,
<b>InchiKey:</b>	OIHAOSSEYPAAGW-UHFFFAOYSA-N
<b>Formula:</b>	C12H13F4NO2
<b>SMILES:</b>	CN(C)CCOC(=O)c1ccc(F)cc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	279.23

## Physical Properties

Property code	Value	Unit	Source
gf	-756.23	kJ/mol	Joback Method
hf	-1047.88	kJ/mol	Joback Method
hfus	30.81	kJ/mol	Joback Method
hvap	52.54	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.563		Crippen Method
mcvol	180.680	ml/mol	McGowan Method
pc	2092.66	kPa	Joback Method
rinpol	1477.00		NIST Webbook
rinpol	1477.00		NIST Webbook
tb	593.18	K	Joback Method
tc	774.75	K	Joback Method
tf	385.87	K	Joback Method
vc	0.703	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	465.78	J/molxK	593.18	Joback Method
cpg	479.04	J/molxK	623.44	Joback Method
cpg	491.53	J/molxK	653.70	Joback Method
cpg	503.28	J/molxK	683.97	Joback Method
cpg	514.32	J/molxK	714.23	Joback Method
cpg	524.68	J/molxK	744.49	Joback Method
cpg	534.39	J/molxK	774.75	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U343768&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343768&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

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