

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

<b>Inchi:</b>	InChI=1S/C23H34F4O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-17-29-22(28)20-16-15-19(24)
<b>InchiKey:</b>	FRBSGERMGJUPTE-UHFFFAOYSA-N
<b>Formula:</b>	C23H34F4O2
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)c1ccc(F)cc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	418.51

## Physical Properties

Property code	Value	Unit	Source
gf	-774.39	kJ/mol	Joback Method
hf	-1342.45	kJ/mol	Joback Method
hfus	56.28	kJ/mol	Joback Method
hvap	74.98	kJ/mol	Joback Method
log10ws	-9.01		Crippen Method
logp	8.093		Crippen Method
mcvol	325.690	ml/mol	McGowan Method
pc	952.60	kPa	Joback Method
rinpol	2415.00		NIST Webbook
rinpol	2415.00		NIST Webbook
tb	832.42	K	Joback Method
tc	1020.27	K	Joback Method
tf	477.37	K	Joback Method
vc	1.300	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1035.93	J/molxK	832.42	Joback Method
cpg	1053.54	J/molxK	863.73	Joback Method
cpg	1070.10	J/molxK	895.04	Joback Method
cpg	1085.65	J/molxK	926.34	Joback Method
cpg	1100.26	J/molxK	957.65	Joback Method
cpg	1113.96	J/molxK	988.96	Joback Method
cpg	1126.81	J/molxK	1020.27	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U338832&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338832&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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