

2-Fluoro-6-trifluoromethylbenzoic acid, 6-pentadecyl ester

Inchi:	InChI=1S/C23H34F4O2/c1-3-5-7-8-9-10-12-15-18(14-11-6-4-2)29-22(28)21-19(23(25,26
InchiKey:	NCPCDUBVXLPLKA-UHFFFAOYSA-N
Formula:	C23H34F4O2
SMILES:	CCCCCCCCC(CCCCC)OC(=O)c1c(F)cccc1C(F)(F)F
Mol. weight [g/mol]:	418.51

Physical Properties

Property code	Value	Unit	Source
gf	-776.83	kJ/mol	Joback Method
hf	-1347.73	kJ/mol	Joback Method
hfus	52.76	kJ/mol	Joback Method
hvap	74.60	kJ/mol	Joback Method
log10ws	-9.12		Crippen Method
logp	8.091		Crippen Method
mcvol	325.690	ml/mol	McGowan Method
pc	957.32	kPa	Joback Method
rinpol	2223.00		NIST Webbook
rinpol	2223.00		NIST Webbook
tb	831.98	K	Joback Method
tc	1020.35	K	Joback Method
tf	462.37	K	Joback Method
vc	1.294	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1036.41	J/molxK	831.98	Joback Method
cpg	1054.07	J/molxK	863.38	Joback Method
cpg	1070.65	J/molxK	894.77	Joback Method
cpg	1086.22	J/molxK	926.17	Joback Method
cpg	1100.83	J/molxK	957.56	Joback Method
cpg	1114.52	J/molxK	988.96	Joback Method
cpg	1127.34	J/molxK	1020.35	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U338543&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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