

2-Fluoro-3-trifluoromethylbenzoic acid, undecyl ester

Inchi:	InChI=1S/C19H26F4O2/c1-2-3-4-5-6-7-8-9-10-14-25-18(24)15-12-11-13-16(17(15)20)19
InchiKey:	SPZBMWMNRGZOJI-UHFFFAOYSA-N
Formula:	C19H26F4O2
SMILES:	CCCCCCCCCOC(=O)c1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	362.40

Physical Properties

Property code	Value	Unit	Source
gf	-808.07	kJ/mol	Joback Method
hf	-1259.89	kJ/mol	Joback Method
hfus	45.92	kJ/mol	Joback Method
hvap	66.08	kJ/mol	Joback Method
log10ws	-7.34		Crippen Method
logp	6.532		Crippen Method
mvol	269.330	ml/mol	McGowan Method
pc	1225.98	kPa	Joback Method
rinpol	2070.00		NIST Webbook
rinpol	2070.00		NIST Webbook
tb	740.90	K	Joback Method
tc	919.72	K	Joback Method
tf	432.29	K	Joback Method
vc	1.077	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	800.14	J/molxK	740.90	Joback Method
cpg	816.18	J/molxK	770.70	Joback Method
cpg	831.31	J/molxK	800.51	Joback Method
cpg	845.59	J/molxK	830.31	Joback Method
cpg	859.04	J/molxK	860.11	Joback Method
cpg	871.71	J/molxK	889.92	Joback Method
cpg	883.62	J/molxK	919.72	Joback Method

Sources

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=U338726&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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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