Benzamide, n-decyl-n-methyl-2-trifluoromethyl-

Inchi: InChI=1S/C19H28F3NO/c1-3-4-5-6-7-8-9-12-15-23(2)18(24)16-13-10-11-14-17(16)19(20

InchiKey: ASZRFMWONOBQFH-UHFFFAOYSA-N

Formula: C19H28F3NO

SMILES: CCCCCCCCCCN(C)C(=O)c1ccccc1C(F)(F)F

Mol. weight [g/mol]: 343.43

Physical Properties

Property code	Value	Unit	Source
hfus	45.06	kJ/mol	Joback Method
ie	9.14	eV	Cheméo Relay (1.0)
log10ws	-5.69		Cheméo Relay (1.0)
logp	5.918		Crippen Method
mcvol	271.670	ml/mol	McGowan Method
pc	1293.00	kPa	Joback Method
rinpol	2151.00		NIST Webbook
tf	308.33	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	804.19	J/mol×K	726.67	Joback Method
cpg	821.24	J/mol×K	756.86	Joback Method
cpg	837.31	J/mol×K	787.06	Joback Method
cpg	852.46	J/mol×K	817.25	Joback Method
cpg	866.75	J/mol×K	847.44	Joback Method
cpg	880.23	J/mol×K	877.64	Joback Method
cpg	892.96	J/mol×K	907.83	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308534&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point