Benzamide, 3-fluoro-N-hexadecyl-

Inchi: InChI=1S/C23H38FNO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-19-25-23(26)21-17-16-18-
InchiKey: DPWZDRZQJBOVEU-UHFFFAOYSA-N
Formula: C23H38FNO
SMILES: CCCCCCCCCCCCCCCCCN=C(O)c1cccc(F)c1
Mol. weight [g/mol]: 363.55

Physical Properties

Property code	Value	Unit	Source
hf	-568.90	kJ/mol	Joback Method
hvap	88.99	kJ/mol	Joback Method
log10ws	-7.97		Crippen Method
logp	7.612		Crippen Method
mcvol	324.490	ml/mol	McGowan Method
pc	999.54	kPa	Joback Method
rinpol	2891.00		NIST Webbook
rinpol	2891.00		NIST Webbook
tb	925.31	K	Joback Method
tc	1132.84	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U407291&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

Legend

hf: Enthalpy of formation 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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature