

Benzamide, 2-fluoro-N-hexadecyl-

Inchi:	InChI=1S/C23H38FNO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-17-20-25-23(26)21-18-15-16-
InchiKey:	HDVSUOLVDGFSCX-UHFFFAOYSA-N
Formula:	C23H38FNO
SMILES:	CCCCCCCCCCCCCCCCN=C(O)c1ccccc1F
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	2860.00		NIST Webbook
rinpol	2860.00		NIST Webbook
tb	925.31	K	Joback Method
tc	1132.84	K	Joback Method

Sources

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=U407144&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

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

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