

Benzamide, 2-fluoro-N-octadecyl-

Inchi:	InChI=1S/C25H42FNO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19-22-27-25(28)23-20-
InchiKey:	FWIRAWDEBVGOJE-UHFFFAOYSA-N
Formula:	C25H42FNO
SMILES:	CCCCCCCCCCCCCCCCCCN=C(O)c1ccccc1F
Mol. weight [g/mol]:	391.61

Physical Properties

Property code	Value	Unit	Source
hf	-610.18	kJ/mol	Joback Method
hvap	93.44	kJ/mol	Joback Method
log10ws	-8.81		Crippen Method
logp	8.392		Crippen Method
mcvol	352.670	ml/mol	McGowan Method
pc	888.41	kPa	Joback Method
rinpol	3079.00		NIST Webbook
rinpol	3079.00		NIST Webbook
tb	971.07	K	Joback Method
tc	1190.83	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=U407145&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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