Benzamide, N,N-dioctyl-2,6-difluoro-

Inchi: InChI=1S/C23H37F2NO/c1-3-5-7-9-11-13-18-26(19-14-12-10-8-6-4-2)23(27)22-20(24)16
InchiKey: BZQQWYNBGGYUII-UHFFFAOYSA-N
Formula: C23H37F2NO
SMILES: CCCCCCCCN(CCCCCCCC)C(=O)c1c(F)cccc1F
Mol. weight [g/mol]: 381.54

Physical Properties

Property code	Value	Unit	Source
gf	-171.83	kJ/mol	Joback Method
hf	-741.73	kJ/mol	Joback Method
hfus	59.37	kJ/mol	Joback Method
hvap	77.55	kJ/mol	Joback Method
log10ws	-8.14		Crippen Method
logp	7.128		Crippen Method
mcvol	326.260	ml/mol	McGowan Method
pc	1005.26	kPa	Joback Method
rinpol	2467.00		NIST Webbook
rinpol	2467.00		NIST Webbook
tb	827.13	K	Joback Method
tc	1015.17	K	Joback Method
tf	484.01	K	Joback Method
vc	1.276	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1032.30	J/mol×K	827.13	Joback Method
cpg	1050.89	J/mol×K	858.47	Joback Method
cpg	1068.43	J/mol×K	889.81	Joback Method
cpg	1084.97	J/mol×K	921.15	Joback Method
cpg	1100.56	J/mol×K	952.49	Joback Method
cpg	1115.26	J/mol×K	983.83	Joback Method
cpg	1129.10	J/mol×K	1015.17	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=U308670&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume