Benzamide, 2,6-difluoro-3-methyl-N-tetradecyl-

Inchi: InChI=1S/C22H35F2NO/c1-3-4-5-6-7-8-9-10-11-12-13-14-17-25-22(26)20-19(23)16-15-1
InchiKey: UPJTVHZDWBEBDC-UHFFFAOYSA-N
Formula: C22H35F2NO
SMILES: CCCCCCCCCCCCCCNC(=O)c1c(F)ccc(C)c1F
Mol. weight [g/mol]: 367.52

Physical Properties

Property code	Value	Unit	Source
gf	-211.27	kJ/mol	Joback Method
hf	-746.62	kJ/mol	Joback Method
hfus	58.47	kJ/mol	Joback Method
hvap	80.38	kJ/mol	Joback Method
log10ws	-8.40		Crippen Method
logp	6.704		Crippen Method
mcvol	312.170	ml/mol	McGowan Method
pc	1069.36	kPa	Joback Method
rinpol	2785.00		NIST Webbook
rinpol	2785.00		NIST Webbook
tb	846.96	K	Joback Method
tc	1039.53	K	Joback Method
tf	505.45	K	Joback Method
vc	1.236	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	991.94	J/mol×K	846.96	Joback Method
cpg	1009.50	J/mol×K	879.05	Joback Method
cpg	1026.02	J/mol×K	911.15	Joback Method
cpg	1041.56	J/mol×K	943.24	Joback Method
cpg	1056.14	J/mol×K	975.34	Joback Method
cpg	1069.82	J/mol×K	1007.43	Joback Method
cpg	1082.64	J/mol×K	1039.53	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407749&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

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