2,6-Difluoro-3-methylbenzamide, N,N-di(2-ethylhexyl)-

Inchi: InChI=1S/C24H39F2NO/c1-6-10-12-19(8-3)16-27(17-20(9-4)13-11-7-2)24(28)22-21(25)1
InchiKey: GVMHSDNRXKEXHB-UHFFFAOYSA-N
Formula: C24H39F2NO
SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)c1c(F)ccc(C)c1F
Mol. weight [g/mol]: 395.57

Physical Properties

Property code	Value	Unit	Source
gf	-177.92	kJ/mol	Joback Method
hf	-784.40	kJ/mol	Joback Method
hfus	54.52	kJ/mol	Joback Method
hvap	79.66	kJ/mol	Joback Method
log10ws	-8.13		Crippen Method
logp	7.148		Crippen Method
mcvol	340.350	ml/mol	McGowan Method
pc	947.33	kPa	Joback Method
rinpol	2474.00		NIST Webbook
tb	854.11	K	Joback Method
tc	1047.67	K	Joback Method
tf	477.80	K	Joback Method
vc	1.319	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1094.67	J/mol×K	854.11	Joback Method
cpg	1113.72	J/mol×K	886.37	Joback Method
cpg	1131.63	J/mol×K	918.63	Joback Method
cpg	1148.46	J/mol×K	950.89	Joback Method
cpg	1164.26	J/mol×K	983.15	Joback Method
cpg	1179.10	J/mol×K	1015.41	Joback Method
cpg	1193.01	J/mol×K	1047.67	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358106&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