Benzamide, 2,6-difluoro-3-methyl-N-(2,6-difluoro-3-methylbenz

Inchi: InChI=1S/C24H27F4NO2/c1-4-5-6-7-8-9-14-29(23(30)19-17(25)12-10-15(2)21(19)27)24(

InchiKey: FSQGTRSCOAJXSS-UHFFFAOYSA-N

Formula: C24H27F4NO2

SMILES: CCCCCCCCN(C(=O)c1c(F)ccc(C)c1F)C(=O)c1c(F)ccc(C)c1F

Mol. weight [g/mol]: 437.47

Physical Properties

Property code	Value	Unit	Source
gf	-608.06	kJ/mol	Joback Method
hf	-1076.52	kJ/mol	Joback Method
hfus	62.20	kJ/mol	Joback Method
hvap	89.81	kJ/mol	Joback Method
log10ws	-8.79		Crippen Method
logp	6.503		Crippen Method
mcvol	321.700	ml/mol	McGowan Method
pc	1106.68	kPa	Joback Method
rinpol	2705.00		NIST Webbook
rinpol	2705.00		NIST Webbook
tb	949.02	K	Joback Method
tc	1162.65	K	Joback Method
tf	622.89	K	Joback Method
vc	1.266	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1026.47	J/mol×K	949.02	Joback Method
cpg	1040.75	J/mol×K	984.62	Joback Method
cpg	1053.91	J/mol×K	1020.23	Joback Method
cpg	1066.02	J/mol×K	1055.83	Joback Method
cpg	1077.14	J/mol×K	1091.44	Joback Method
cpg	1087.31	J/mol×K	1127.04	Joback Method
cpg	1096.61	J/mol×K	1162.65	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407761&Units=SI

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