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

Inchi: InChI=1S/C20H19F4NO2/c1-10(2)9-25(19(26)15-13(21)7-5-11(3)17(15)23)20(27)16-14(

InchiKey: BSSGBALEZFXGKP-UHFFFAOYSA-N

Formula: C20H19F4NO2

SMILES: Cc1ccc(F)c(C(=O)N(CC(C)C)C(=O)c2c(F)ccc(C)c2F)c1F

Mol. weight [g/mol]: 381.36

Physical Properties

Property code	Value	Unit	Source
gf	-644.18	kJ/mol	Joback Method
hf	-999.24	kJ/mol	Joback Method
hfus	48.32	kJ/mol	Joback Method
hvap	80.52	kJ/mol	Joback Method
log10ws	-6.87		Crippen Method
logp	4.798		Crippen Method
mcvol	265.340	ml/mol	McGowan Method
pc	1463.49	kPa	Joback Method
rinpol	2262.00		NIST Webbook
rinpol	2262.00		NIST Webbook
tb	857.06	K	Joback Method
tc	1064.00	K	Joback Method
tf	562.81	K	Joback Method
vc	1.036	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	792.56	J/mol×K	857.06	Joback Method
cpg	805.69	J/mol×K	891.55	Joback Method
cpg	817.83	J/mol×K	926.04	Joback Method
cpg	829.03	J/mol×K	960.53	Joback Method
cpg	839.33	J/mol×K	995.02	Joback Method
cpg	848.76	J/mol×K	1029.51	Joback Method
cpg	857.38	J/mol×K	1064.00	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=U407755&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