Benzamide, 3-trifluoromethyl-2-fluoro-N-(3-trifluoromethyl-2-fl

Inchi: InChI=1S/C23H21F8NO2/c1-3-4-5-8-13(2)32(20(33)14-9-6-11-16(18(14)24)22(26,27)28)

InchiKey: FZLJBPKOWBFAGP-UHFFFAOYSA-N

Formula: C23H21F8NO2

SMILES: CCCCCC(C)N(C(=O)c1cccc(C(F)(F)F)c1F)C(=O)c1cccc(C(F)(F)F)c1F

Mol. weight [g/mol]: 495.41

Physical Properties

Property code	Value	Unit	Source
gf	-1373.22	kJ/mol	Joback Method
hf	-1840.16	kJ/mol	Joback Method
hfus	54.36	kJ/mol	Joback Method
hvap	80.01	kJ/mol	Joback Method
log10ws	-9.08		Crippen Method
logp	7.254		Crippen Method
mcvol	314.690	ml/mol	McGowan Method
pc	1100.81	kPa	Joback Method
rinpol	2141.00		NIST Webbook
rinpol	2141.00		NIST Webbook
tb	906.36	K	Joback Method
tc	1111.05	K	Joback Method
tf	578.78	K	Joback Method
vc	1.254	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	999.11	J/mol×K	906.36	Joback Method
cpg	1012.15	J/mol×K	940.47	Joback Method
cpg	1024.29	J/mol×K	974.59	Joback Method
cpg	1035.64	J/mol×K	1008.70	Joback Method
cpg	1046.28	J/mol×K	1042.82	Joback Method
cpg	1056.33	J/mol×K	1076.93	Joback Method
cpg	1065.88	J/mol×K	1111.05	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=U407723&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