Benzenamine, 2,3,4,5,6-pentafluoro-N-(pentafluorophenyl)-

Inchi: InChI=1S/C12HF10N/c13-1-3(15)7(19)11(8(20)4(1)16)23-12-9(21)5(17)2(14)6(18)10(12)

InchiKey: NHPXUJAURHKKGX-UHFFFAOYSA-N

Formula: C12HF10N

SMILES: Fc1c(F)c(F)c(Nc2c(F)c(F)c(F)c(F)c2F)c(F)c1F

Mol. weight [g/mol]: 349.13

CAS: 1535-92-8

Physical Properties

Property code	Value	Unit	Source
gf	-1680.03	kJ/mol	Joback Method
hf	-1840.28	kJ/mol	Joback Method
hfus	46.93	kJ/mol	Joback Method
hvap	51.74	kJ/mol	Joback Method
log10ws	-6.59		Crippen Method
logp	4.821		Crippen Method
mcvol	160.100	ml/mol	McGowan Method
pc	1898.60	kPa	Joback Method
tb	619.99	K	Joback Method
tc	787.02	K	Joback Method
tf	461.60	K	Joback Method
vc	0.707	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	399.91	J/mol×K	619.99	Joback Method
cpg	407.96	J/mol×K	647.83	Joback Method
cpg	415.65	J/mol×K	675.67	Joback Method
cpg	422.97	J/mol×K	703.50	Joback Method
cpg	429.94	J/mol×K	731.34	Joback Method
cpg	436.54	J/mol×K	759.18	Joback Method
cpg	442.78	J/mol×K	787.02	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1535928&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume