

5-Amino-2-bromobenzotrifluoride

Other names:	Benzenamine, 4-bromo-3-(trifluoromethyl)- 4-Bromo-«alpha», «alpha», «alpha»-trifluoro-m-toluidine 3-Trifluoromethyl-4-bromoaniline
Inchi:	InChI=1S/C7H5BrF3N/c8-6-2-1-4(12)3-5(6)7(9,10)11/h1-3H,12H2
InchiKey:	YGNISOAUPSJDJE-UHFFFAOYSA-N
Formula:	C7H5BrF3N
SMILES:	Nc1ccc(Br)c(C(F)(F)F)c1
Mol. weight [g/mol]:	240.02
CAS:	393-36-2

Physical Properties

Property code	Value	Unit	Source
gf	-399.61	kJ/mol	Joback Method
hf	-511.18	kJ/mol	Joback Method
hfus	19.46	kJ/mol	Joback Method
hvap	48.11	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.050		Crippen Method
mcvol	118.520	ml/mol	McGowan Method
pc	4010.84	kPa	Joback Method
tb	529.47	K	Joback Method
tc	753.19	K	Joback Method
tf	367.36	K	Joback Method
vc	0.454	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.96	J/molxK	529.47	Joback Method
cpg	258.25	J/molxK	566.76	Joback Method
cpg	266.76	J/molxK	604.04	Joback Method
cpg	274.55	J/molxK	641.33	Joback Method
cpg	281.67	J/molxK	678.62	Joback Method
cpg	288.17	J/molxK	715.91	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C393362&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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