

Benzamide, N-(4-bromophenyl)-2-fluoro-

Inchi:	InChI=1S/C13H9BrFNO/c14-9-5-7-10(8-6-9)16-13(17)11-3-1-2-4-12(11)15/h1-8H,(H,16,17)
InchiKey:	FQVDFZONSTVCKX-UHFFFAOYSA-N
Formula:	C13H9BrFNO
SMILES:	O=C(Nc1ccc(Br)cc1)c1ccccc1F
Mol. weight [g/mol]:	294.12

Physical Properties

Property code	Value	Unit	Source
gf	44.12	kJ/mol	Joback Method
hf	-90.42	kJ/mol	Joback Method
hfus	31.79	kJ/mol	Joback Method
hvap	69.21	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	3.840		Crippen Method
mcvol	177.330	ml/mol	McGowan Method
pc	3325.84	kPa	Joback Method
rinpola	2155.00		NIST Webbook
rinpola	2155.00		NIST Webbook
tb	729.63	K	Joback Method
tc	979.25	K	Joback Method
tf	477.13	K	Joback Method
vc	0.668	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.72	J/molxK	729.63	Joback Method
cpg	441.35	J/molxK	771.23	Joback Method
cpg	451.94	J/molxK	812.84	Joback Method
cpg	461.58	J/molxK	854.44	Joback Method
cpg	470.34	J/molxK	896.04	Joback Method
cpg	478.31	J/molxK	937.65	Joback Method
cpg	485.56	J/molxK	979.25	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U307083&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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