

Benzamide, N-(4-bromophenyl)-4-trifluoromethyl-

Inchi:	InChI=1S/C14H9BrF3NO/c15-11-5-7-12(8-6-11)19-13(20)9-1-3-10(4-2-9)14(16,17)18/h1
InchiKey:	YKTUUHRDVDNBFT-UHFFFAOYSA-N
Formula:	C14H9BrF3NO
SMILES:	O=C(Nc1ccc(Br)cc1)c1ccc(C(F)(F)F)cc1
Mol. weight [g/mol]:	344.13

Physical Properties

Property code	Value	Unit	Source
gf	-334.24	kJ/mol	Joback Method
hf	-512.03	kJ/mol	Joback Method
hfus	33.13	kJ/mol	Joback Method
hvap	68.50	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	4.720		Crippen Method
mcvol	194.960	ml/mol	McGowan Method
pc	2767.17	kPa	Joback Method
rinpol	2203.00		NIST Webbook
rinpol	2203.00		NIST Webbook
tb	747.82	K	Joback Method
tc	984.32	K	Joback Method
tf	492.00	K	Joback Method
vc	0.750	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.39	J/molxK	747.82	Joback Method
cpg	510.58	J/molxK	787.24	Joback Method
cpg	520.76	J/molxK	826.65	Joback Method
cpg	530.03	J/molxK	866.07	Joback Method
cpg	538.49	J/molxK	905.49	Joback Method
cpg	546.26	J/molxK	944.90	Joback Method
cpg	553.42	J/molxK	984.32	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=U307250&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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