

Bromine azide

Other names:	Bromine azide (Br(N ₃)) Bromine nitride Nitrogen bromide (N ₃ Br)
Inchi:	InChI=1S/BrN3/c1-3-4-2
InchiKey:	KFCUPNHUPHDVJC-UHFFFAOYSA-N
Formula:	BrN ₃
SMILES:	[N-]=[N+]=NBr
Mol. weight [g/mol]:	121.92
CAS:	13973-87-0

Physical Properties

Property code	Value	Unit	Source
ie	10.00 ± 0.01	eV	NIST Webbook
log10ws	-6.33		Crippen Method
logp	1.607		Crippen Method
mvol	49.700	ml/mol	McGowan Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13973870&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mvol:	McGowan's characteristic volume

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<https://www.chemeo.com/cid/50-224-7/Bromine-azide.pdf>

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