

Bromine monoxide

Inchi: InChI=1S/BrO/c1-2
InchiKey: FMSOWMGJJIHFTQ-UHFFFAOYSA-N
Formula: BrO
SMILES: [O]Br
Mol. weight [g/mol]: 95.90
CAS: 15656-19-6

Physical Properties

Property code	Value	Unit	Source
ea	2.35 ± 0.01	eV	NIST Webbook
ea	1.53 ± 0.22	eV	NIST Webbook
ie	10.46 ± 0.02	eV	NIST Webbook
ie	10.29 ± 0.01	eV	NIST Webbook
log10ws	-5.14		Crippen Method
logp	0.727		Crippen Method
mcvol	32.080	ml/mol	McGowan Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C15656196&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Legend

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

Latest version available from:

<https://www.chemeo.com/cid/112-591-1/Bromine-monoxide.pdf>

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