

Bromine

Inchi: InChI=1S/Br
InchiKey: WKBOTKDWSSQWDR-UHFFFAOYSA-N
Formula: Br
SMILES: [Br]
Mol. weight [g/mol]: 79.90
CAS: 10097-32-2

Physical Properties

Property code	Value	Unit	Source
affp	554.40	kJ/mol	NIST Webbook
basg	531.20	kJ/mol	NIST Webbook
ea	3.36 ± 0.00	eV	NIST Webbook
ea	3.36 ± 0.00	eV	NIST Webbook
ea	3.49	eV	NIST Webbook
hf	111.87 ± 0.12	kJ/mol	NIST Webbook
ie	11.81	eV	NIST Webbook
ie	11.81	eV	NIST Webbook
ie	11.81	eV	NIST Webbook
ie	11.90 ± 0.30	eV	NIST Webbook
ie	11.81	eV	NIST Webbook
ie	11.81	eV	NIST Webbook
ie	11.81 ± 0.02	eV	NIST Webbook
ie	11.81	eV	NIST Webbook
sgb	175.02 ± 0.00	J/mol×K	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C10097322&Units=SI>

Legend

affp:	Proton affinity
basg:	Gas basicity
ea:	Electron affinity
hf:	Enthalpy of formation at standard conditions
ie:	Ionization energy
sgb:	Molar entropy at standard conditions (1 bar)

Latest version available from:

<https://www.chemeo.com/cid/29-188-2/Bromine.pdf>

Generated by Cheméo on 2024-04-23 10:28:36.745633415 +0000 UTC m=+16157365.666210731.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.