

Iodine atom

Inchi: InChI=1S/I
InchiKey: ZCYVEMRRCGMTRW-UHFFFAOYSA-N
Formula: I
SMILES: [I]
Mol. weight [g/mol]: 126.90
CAS: 14362-44-8

Physical Properties

Property code	Value	Unit	Source
affp	608.20	kJ/mol	NIST Webbook
basg	583.50	kJ/mol	NIST Webbook
ea	3.06 ± 0.00	eV	NIST Webbook
ea	3.06 ± 0.00	eV	NIST Webbook
ea	3.06 ± 0.00	eV	NIST Webbook
ea	3.06 ± 0.00	eV	NIST Webbook
ea	3.06 ± 0.04	eV	NIST Webbook
ea	3.06 ± 0.00	eV	NIST Webbook
ea	3.34	eV	NIST Webbook
hf	106.76 ± 0.04	kJ/mol	NIST Webbook
ie	10.45	eV	NIST Webbook
ie	10.45	eV	NIST Webbook
ie	10.45	eV	NIST Webbook
ie	10.43 ± 0.05	eV	NIST Webbook
ie	10.40 ± 0.10	eV	NIST Webbook
ie	10.50	eV	NIST Webbook
ie	10.45	eV	NIST Webbook
ie	10.43 ± 0.02	eV	NIST Webbook
ie	10.45	eV	NIST Webbook
sgb	180.79 ± 0.00	J/mol×K	NIST Webbook

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C14362448&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)

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