

Fluorine atom

Inchi: InChI=1S/F
InchiKey: YCKRFDGAMUMZLT-UHFFFAOYSA-N
Formula: F
SMILES: [F]
Mol. weight [g/mol]: 19.00
CAS: 14762-94-8

Physical Properties

Property code	Value	Unit	Source
affp	340.10	kJ/mol	NIST Webbook
basg	315.10	kJ/mol	NIST Webbook
ea	3.45 ± 0.01	eV	NIST Webbook
ea	3.40	eV	NIST Webbook
ea	3.41	eV	NIST Webbook
ea	3.40 ± 0.00	eV	NIST Webbook
ea	3.49	eV	NIST Webbook
hf	79.38 ± 0.30	kJ/mol	NIST Webbook
ie	17.47 ± 0.02	eV	NIST Webbook
ie	17.42	eV	NIST Webbook
ie	17.43	eV	NIST Webbook
ie	17.42	eV	NIST Webbook
ie	17.42	eV	NIST Webbook
ie	17.42	eV	NIST Webbook
ie	17.20	eV	NIST Webbook
ie	17.42	eV	NIST Webbook
sgb	158.75 ± 0.00	J/molxK	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C14762948&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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