

Nitrogen atom

Inchi: InChI=1S/N
InchiKey: QJGQUHMNIGDVPM-UHFFFAOYSA-N
Formula: N
SMILES: [N]
Mol. weight [g/mol]: 14.01
CAS: 17778-88-0

Physical Properties

Property code	Value	Unit	Source
affp	342.20	kJ/mol	NIST Webbook
basg	318.70	kJ/mol	NIST Webbook
hf	472.68 ± 0.40	kJ/mol	NIST Webbook
ie	14.53	eV	NIST Webbook
ie	14.53	eV	NIST Webbook
ie	14.53	eV	NIST Webbook
ie	14.53	eV	NIST Webbook
ie	14.56	eV	NIST Webbook
ie	14.55	eV	NIST Webbook
ie	14.55	eV	NIST Webbook
ie	14.53	eV	NIST Webbook
sgb	153.30 ± 0.00	J/mol×K	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C17778880&Units=SI>

Legend

affp: Proton affinity
basg: Gas basicity
hf: Enthalpy of formation at standard conditions

ie: Ionization energy
sgb: Molar entropy at standard conditions (1 bar)

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<https://www.chemeo.com/cid/15-044-6/Nitrogen-atom.pdf>

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