

Hydrogen atom

Inchi:	InChI=1S/H
InchiKey:	YZCKVEUIGOORGS-UHFFFAOYSA-N
Formula:	H
SMILES:	[H]
Mol. weight [g/mol]:	1.01
CAS:	12385-13-6

Physical Properties

Property code	Value	Unit	Source
ea	0.75	eV	NIST Webbook
ea	0.75	eV	NIST Webbook
ea	0.78 ± 0.02	eV	NIST Webbook
hf	218.00 ± 0.01	kJ/mol	NIST Webbook
hfpi	1530.00	kJ/mol	NIST Webbook
hfpiz	1528.00	kJ/mol	NIST Webbook
ie	13.61	eV	NIST Webbook
ie	13.60	eV	NIST Webbook
ie	13.60	eV	NIST Webbook
ie	13.60	eV	NIST Webbook
ie	13.60	eV	NIST Webbook
sgb	114.72 ± 0.00	J/mol×K	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C12385136&Units=SI>

Legend

ea:	Electron affinity
hf:	Enthalpy of formation at standard conditions
hfpi:	Enthalpy of formation of positive ion at standard conditions

hfpiz: Enthalpy of formation of positive ion at 0K
ie: Ionization energy
sgb: Molar entropy at standard conditions (1 bar)

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