

2.2: The Physical Properties of Hydrogen

Table 2.2.2.1: Physical properties of hydrogen.

Chemical Symbol	H
Atomic number	1
Electron configuration	1s ¹
Atomic weight	1.00794
Melting point	-259 °C
Boiling point	-253 °C
Density (gas)	0.090 g/L
Density (liquid)	0.70g/L
Ionization potential	13.598 eV
Pauling electronegativity	2.1
Ionic radius (H ⁻)	1.54 Å
van der Waal radius	1.2 Å
Explosive limit	4 - 75%
Ignition temperature	585 °C

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