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## Hydrogen

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### 1. Introduction :

Hydrogen is the chemical element with atomic number 1. It is represented by the symbol H. At standard temperature and pressure, hydrogen is a colorless, odorless, nonmetallic, tasteless, highly flammable diatomic gas with the molecular formula H<sub>2</sub>. With an atomic weight of 1.00794 u, hydrogen is the lightest element.

Hydrogen is the most abundant chemical element, constituting roughly 75 % of the universe's elemental mass. Stars in the main sequence are mainly composed of hydrogen in

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