

Oxygen is the chemical element with the symbol O and atomic number 8. It is a member of the **chalcogen** group in the periodic table, **a highly reactive nonmetal, and an oxidizing agent** that readily forms oxides with most elements as well as with other compounds. By mass, oxygen is the **third-most** abundant element in the universe, after hydrogen and helium. At standard temperature and pressure, two atoms of the element bind to form **dioxygen**, a colorless and odorless diatomic gas with the formula O₂. Diatomic oxygen gas constitutes 20.8% of the Earth's atmosphere. As compounds including oxides, the element makes up almost half of the Earth's crust.



Aspect: Element properties	
Q1: What is the atomic number of Oxygen?	A1: 8.
Q2: Which group of the periodic table is Oxygen in?	A2: Chalcogen.
Q3: What is the ranking of oxygen in the universe by mass?	A3: Third-most.
Aspect: Chemical reaction	
Q4: Which kind of chemical is Oxygen that readily forms oxides with most elements as well as with other compounds?	A4: A highly reactive nonmetal, and an oxidizing agent.
Q5: What would two Oxygen atoms of the element bind to form at standard temperature and pressure?	A5: Dioxygen.