This dataset appears to be related to **water quality assessment** and **potability prediction**. Here’s an explanation of each column:

1. **ph** – The pH level of the water, indicating its acidity or alkalinity (typically ranges from 0 to 14, with 7 being neutral).
2. **Hardness** – The concentration of dissolved minerals (mainly calcium and magnesium) in water, measured in mg/L.
3. **Solids** – The total dissolved solids (TDS) in water, measured in ppm (parts per million).
4. **Chloramines** – The concentration of chloramines (compounds of chlorine and ammonia) used for disinfection, measured in mg/L.
5. **Sulfate** – The concentration of sulfate ions in water, which can affect taste and scaling, measured in mg/L.
6. **Conductivity** – The water’s ability to conduct electricity, which indicates the presence of dissolved salts and minerals, measured in µS/cm (microsiemens per centimeter).
7. **Organic\_carbon** – The total organic carbon (TOC) in water, indicating the presence of organic matter, measured in mg/L.
8. **Trihalomethanes** – The concentration of trihalomethanes (THMs), which are byproducts of chlorine disinfection and can be harmful, measured in µg/L.
9. **Turbidity** – The cloudiness or haziness of the water caused by suspended particles, measured in NTU (Nephelometric Turbidity Units).
10. **Potability** – Indicates whether the water is **safe for drinking** (**1 = Potable, 0 = Not Potable**).