# IS 7918: 2001
# Diethylene Glycol Specification

**Diethylene Glycol (DEG)** is a **hygroscopic liquid** primarily used for **gas dehydration** in applications like **natural gas processing**. It plays a versatile role across industries as a **conditioning agent** and **lubricant** in **textile processing** to enhance **fiber flexibility** and **elasticity**. Additionally, DEG serves as a **humectant** for **moisture control**, a **softening agent** in **glues and adhesives**, and an **additive in rubber compounding** to counteract the effects of mineral fillers. It is also used in **chemical extraction processes**, making it valuable in a wide range of manufacturing applications.

Consumers expect **high-quality diethylene glycol** to be **free of suspended matter**, **fully miscible with water**, and to meet specific **color, density, and purity** requirements for consistent and reliable performance. Parameters like **boiling range**, **low water content**, and **controlled acidity** are essential to ensure safety and stability in industrial use.

The **Indian Standard IS 7918: 2001**, developed by the **Bureau of Indian Standards (BIS)**, outlines stringent **quality and performance requirements** for diethylene glycol. This standard mandates that DEG be **free from impurities** like suspended matter and establishes criteria for **color (Pt-Co scale)**, **relative density**, **boiling range**, **water content**, **acidity**, and **iron content**. Additionally, it specifies acceptable levels for **monoethylene** and **triethylene glycol** to maintain product purity and effectiveness.

When purchasing diethylene glycol, look for the **BIS Standard Mark** and compliance with **IS 7918: 2001** as indicators of quality, safety, and performance