



**Decyl Glucoside** is a nonionic surfactant derived from natural sources, primarily plant-based fatty alcohols and glucose. It is commonly used in personal care products, especially in those formulated for sensitive skin, due to its gentle cleansing properties and environmental friendliness.

## **CHEMICAL PROPERTIES:**

### **Appearance:**

Decyl glucoside is typically a pale yellow to light amber, viscous liquid with a mild odor.

### **Solubility:**

It is soluble in water, forming a clear to slightly cloudy solution. Its solubility in oils and nonpolar solvents is limited due to its polar nature.

### **pH:**

Decyl glucoside has a slightly acidic to neutral pH range, typically between 5 and 7, making it mild and suitable for sensitive skin formulations.

### **Stability:**

It is stable under normal storage conditions and is compatible with a wide range of other ingredients, including other surfactants, emulsifiers, and conditioning agents. Decyl glucoside remains stable across a broad pH range, though it is most effective in formulations with a pH similar to that of the skin.

### **Surface Activity:**

As a nonionic surfactant, decyl glucoside reduces the surface tension of water, enabling it to emulsify oils and suspend dirt, making it an effective cleansing agent.

**Biodegradability:**

Decyl glucoside is biodegradable, which contributes to its popularity in eco-friendly and.

