

# Chemical Engineering Concepts



## Unit operation:

Useful Physical changes occur in the chemical industry is known as a Unit Operation.

Example: Distillation, Filtration, Drying, Extraction, Gas absorption, Crystallization, etc.

## Unit process:

Useful Chemical changes with or without physical change occur in chemical industry are known as a Unit Process.

Example: - Oxidation, Reduction, Alkylation, Sulfonation, Chlorination, etc.

## Density:

(Mass / Volume)

$$1 \text{ gm/cm}^3 = 1 \text{ t/m}^3 = 1 \text{ kg/ltr} = 1 \text{ gm/ml}$$

$$1 \text{ gm/cm}^3 = 1000 \text{ kg/m}^3$$

## Specific Gravity / Relative Density:

$$\text{S.G. for Liquids} = \text{Liquid Density} / \text{Water Density}$$

$$\text{S.G. for Gases} = \text{Gas Density} / \text{Air Density}$$

# Chemical Engineering Concepts

**Shasha Hu**



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