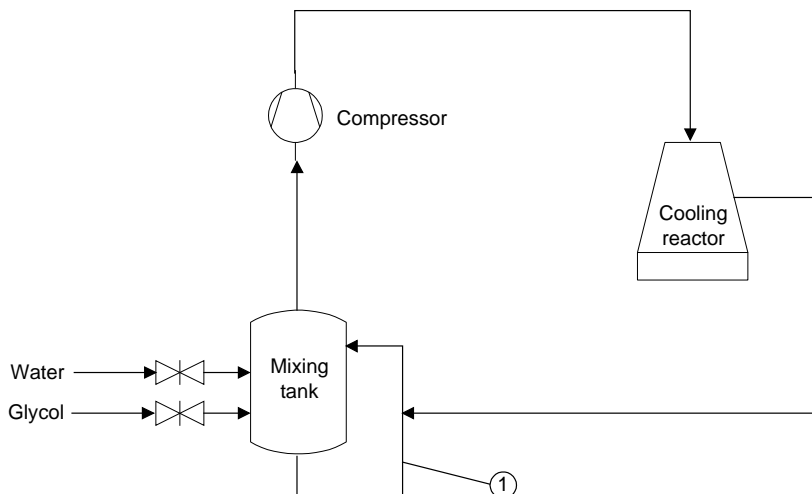


Ethylene Glycol



Positions where K-Patents PR-01-S is used:

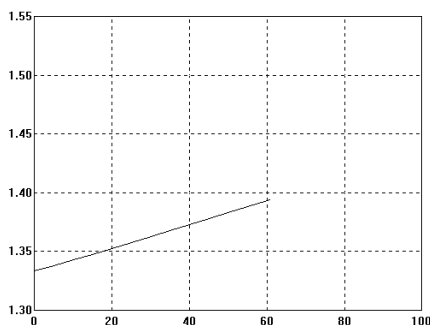
- ① Cooling system control

Ethylene Glycol (CH₂OH)₂

Typical end products

Antifreezes, coolants for engines, fibres, films and airport de-icing

Chemical curve: R.I. per Conc% b.w.



R.I. Ref. temp. 20°C

Ethylene glycol is a colourless, odourless, rather viscous hygroscopic liquid having a sweet taste.

Application

Ethylene glycol, like most other alcohols, is manufactured by reacting chlorine and water with ethylene to form the chlorohydrin, which is then hydrolyzed to yield glycol.

Ethylene glycol can also be made by the hydration of ethylene oxide with a dilute sulphuric acid solution. An excess of water and different glycols are separated by vacuum distillation.

The desired concentrations are obtained by mixing a full strength solution with water to achieve the desired percent concentration.

K-Patents Process Refractometer PR-01-S is used to measure the concentration of ethylene glycol as a quality control of the cooling system in compressor stations.

Typical measurement ranges are 0-40% or 30-70% and the normal process temperatures from -25°C (-13°F) to 40°C (104°F) depending on customer's need.

Introduction

Installation