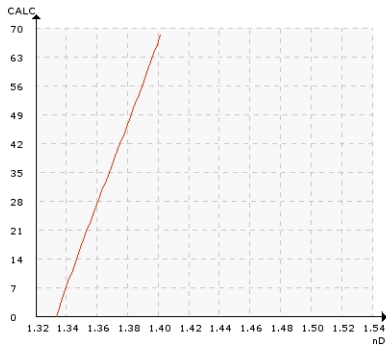


## ETHYLENE GLYCOL, CH<sub>2</sub>OH<sub>2</sub>

### Typical end products

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

Chemical curve: Ethylene glycol R.I. per Conc% b.w. at Ref. Temp. of 20°C



### Introduction

Ethylene glycol is a colorless, odorless and rather viscous hygroscopic liquid with a sweet flavor.

### Application



The K-Patents Process Refractometer PR-23-GP is used for quality control by monitoring the cooling system's ethylene glycol concentrations levels.

The desired concentrations are obtained by mixing a concentrated solution with water.

### Installation

The instrument is installed after the mixing tank in order to maintain the right concentration for the cooling system.

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

| Instrumentation   | Description   |
|---|---|
|  | <p>K-Patents Sanitary Compact Refractometer PR-23-AC for small pipe line sizes of 2.5 inch and smaller.</p> <p>The PR-23-AC sensor is installed in the pipe bend. It is angle mounted on the outer corner of the pipe bend directly, or by a flow cell using a 3A Sanitary clamp or Varivent® connection.</p> |
|  | <p>K-Patents Process Refractometer PR-23-GP is an industrial refractometer for large pipe sizes and tanks, cookers, crystallizers and kettles. Installation through a flange or clamp connection.</p>   |
| <p>Measurement range:</p>   | <p>Refractive Index (nD) 1.3200 – 1.5300, corresponding to 0-100 % by weight.</p>   |