



USP/EP Food Grade Glycol

Performance Properties

Coolflow USP has been specifically formulated for **Food & Beverage** cooling systems where only United States Pharmacopeia or European Pharmacopeia food grade Mono Propylene Glycol is specified.

For the majority of F&B cooling systems Coolflow NTP and/or Coolflow DTX are totally acceptable.

Non Toxic:

Coolflow USP is classified as non toxic, with an LD50 (Oral Rat) >15,000 mg/kg bw.

Application

As per BSRIA guide BG 29/2012 all pipework systems should be clean and free from biological contamination and debris prior to commissioning. To minimise corrosion air ingress should be minimized. A pressurised system is best. Determine the total system volume and add **Coolflow USP** to the system according to the minimum operating temperature required (see table). The minimum dose of **Coolflow USP** should not be less than 25% of the system volume and the maximum does not normally exceed 60%. **Coolflow USP** should only be mixed/diluted with deionised, distilled or UltraPure™ water.

Coolflow USP can also be supplied as a Ready-To-Use solution, premixed with UltraPure™ Water

Diluting Concentrate

When measuring the percentage concentration of Coolflow USP in solution we recommend the use of a recently calibrated refractometer.

Physical Properties

Frost Protection

< -50°C depending on concentration.

Density

1.03 - 1.05 g/cm³

pH

7.5 - 9.0

Boiling Point

187.4°C (100% v/v)

Characteristics

Clear, slightly viscous liquid. It is mildly sweet to the taste and has a non-pungent but characteristic aroma.

Biodegradability

Concentrate **Coolflow USP** and water based mixtures are readily biodegradable (90% over 10 days) and will not remain in the environment or bio-accumulate.

Container Sizes

Available in: 5, 10, 25, 205L drums & 1000L IBCs

Frost Protection °C	v/v of Coolflow USP %	Refractive Index
-10	25.0	1.356
-15	33.0	1.364
-20	39.0	1.370
-25	44.0	1.375
-30	48.0	1.379
-35	53.0	1.383

Fluid Management Services

To ensure inhibitor levels are being maintained and the system fluid is in good condition, we recommend periodic sampling and testing. Hydratech operate the Fluid Monitoring Program (FMP) service for all users of our products. For more information on the FMP please call or visit www.hydratech.co.uk.

Quality Assured

Coolflow USP meets or exceeds the corrosion standards laid down in ASTM D-1384. Hydratech products are manufactured in accordance with ISO 9001: 2015 procedures.

Storage & Shelf Life

At least 3 years when stored in sealed containers, below 40°C and out of direct sunlight.

Health & Safety

Please refer to the associated Safety Data Sheet, which is available online via Login and/or by mail.

24/7 Technical Support

Technical support services and products to ensure ongoing system efficiency and protection.

tel. 01792 586800

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