



High Grade Monopropylene Glycol

Performance Properties

Coolflow MPG is a high purity material produced by the high temperature and pressure hydrolysis of propylene oxide (PO) and excess water. **Coolflow MPG** is a distilled product with a purity specification of 99.5% and available from Hydratech in 5, 10, 20, 25, 205 and 1000 litre units.

Non Toxic:

Coolflow MPG 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 MPG** to the system according to the minimum operating temperature required (see table). The minimum dose of **Coolflow MPG** should not be less than 25% of the system volume and the maximum does not normally exceed 60%. **Coolflow MPG** should only be mixed/diluted with deionised, distilled or UltraPure™ water.

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

Diluting Concentrate

When measuring the percentage concentration of Coolflow MPG 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 kg/m³

pH

7.5 - 9.0

Boiling Point

187.4°C (100% v/v)

For operating temperatures above 100°C, refer to Hydratech for technical advice.

Characteristics

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

Biodegradability

Concentrate **Coolflow MPG** 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 MPG %	Refractive Index
-10	25.0	1.35600
-15	33.0	1.36400
-20	39.0	1.37000
-25	44.0	1.37500
-30	48.0	1.37900
-35	53.0	1.38300

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 MPG is 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 on request.

24/7 Technical Support

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

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