

# Specification

Technical Data Sheet

## CAS

57-55-6

## STORAGE

Ambient

## MOLECULAR WEIGHT

76.09

## PRODUCT

**Propylene Glycol USP**

Product number 90033208

CAS number 57-55-6

Molecular formula CH3CH(OH)CH2CH2OH

Molecular weight 76.09 g/mol

## PARAMETER

## SPECIFICATION

|                             |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| Appearance                  | Viscous liquid that is practically odorless and colorless               |
| Colour (Pt-Co)              | ≤5                                                                      |
| Conclusion                  | Fulfils the current Pharmacopeial Specifications: USP, Ph. Eur. and FCC |
| Heavy metals                | ≤5ppm                                                                   |
| Refractive Index            | 1.4310 - 1.4330                                                         |
| Water                       | ≤0.1%                                                                   |
| Acid (Based on acetic acid) | ≤0.0020%                                                                |
| Cadmium (Cd)                | ≤0.50ppm                                                                |
| Chlorides                   | ≤1ppm                                                                   |
| Clarity                     | 3                                                                       |
| Diethylene glycol (%)       | ≤0.10%                                                                  |
| Dipropylene glycol, %       | ≤0.1%                                                                   |
| Distillation Range          | 185.0 -189.0°C                                                          |
| Iron (Fe)                   | ≤0.30ppm                                                                |
| Monoethylene glycol, %      | ≤0.10%                                                                  |

| PARAMETER                        | SPECIFICATION   |
|----------------------------------|-----------------|
| Monopropylene glycol, %          | ≥99%            |
| Neutralisation number, mgKOH/g   | ≤0.0100mgKOH/   |
| Organic Volatile Impurities      | -               |
| Reducing Substances              | -               |
| Specific Gravity                 | 1.0350 - 1.0370 |
| Sulphated Ash                    | ≤70ppm          |
| Arsenic (As)                     | ≤ 2ppm          |
| Lead (Pb)                        | ≤1ppm           |
| Mercury (Hg)                     | ≤0.10ppm        |
| Oxidising Substances             | -               |
| Sulphates (SO <sub>4</sub> )(2-) | ≤60ppm          |

|                                |                                                                                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIFICATION STATEMENT</b> | The values stated above represent the standard specification for this product, issued under <b>Molekula Ltd</b> 's quality management system. Batch-specific results are provided on the Certificate of Analysis. |
| <b>STORAGE</b>                 | Store as indicated on the product label, away from light, moisture and incompatible materials.                                                                                                                    |

**Molekula Ltd** would like to thank you for your support of our products and service.

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