



TECHNICAL SHEET

PROPYLENE GLYCOL

TECHNICAL GRADE
Last revision 2018

Chemical Name: Molecular formula: C₃H₈O₂
No. CAS: 57-55-6
Abbreviation: PG

General Description:

Propylene Glycol is a clear, viscous, oily, colorless liquid, with a characteristic odor. The product is very easily soluble in alcohol, water, acetone and chloroform.

Technical Quality Conditions:

| Characteristics | M.U. | Values | Test methods |
|--------------------------------------|-------------|-----------------------|--------------|
| Appearance | - | viscous, clear liquid | visual |
| Propylene glycol, min | % | 99.5 | ILL-003/3-14 |
| Distillation range (95% vol.) | °C | 185-189 | ASTM D 1078 |
| Water (Karl-Fischer), max. | % | 0.25 | ASTM E 203 |
| Acidity (CH ₃ COOH), max. | % | 0.005 | ASTM D 1613 |
| Hazen color, max. | Hazen units | 10 | SR ISO 2211 |
| Ashes, max. | % | 0.01 | ILL-003/3-15 |

Specific Properties:

| | |
|------------------------------------|----------------------|
| Density at 20°C, g/cm ³ | 1.037 |
| Boiling point | 188.2°C at 760 mm Hg |
| Ignition temperature | 99 °C |
| Flammability | Not flammable |

The specific properties present approximate values and contain general information, without being part of the technical quality conditions.

Main Applications:

- as glycerin substitute in fine organic synthesis;
- manufacturing of hydraulic fluids, antifreeze solution;
- manufacturing of polyethers, printing ink, plasticizers, demulsifiers, antifoamers;
- manufacturing of cellophane.



S.C. CHIMCOMPLEX S.A. BORZEȘTI - ROMÂNIA

Sucursala Râmnicu Vâlcea

✉: Str. Uzinei, nr. 1, Râmnicu Vâlcea, jud. Vâlcea
Tel: +40 250 701 200; Fax: +40 250 735 030
www.chimcomplex.ro

Packing and storage:

Propylene Glycol is packed in stainless steel or carbon steel tanks with proper inner protection, with a capacity of 20 or 40 tons, property of supplier or customer, or in other stainless steel or aluminum, clean and dry containers.

It is stored in specially designed, shed-type storage facilities, with concrete platform.

In the case of storage in reservoirs, a slight overpressure with inert gas should be created to avoid moisture infiltration (the product is hygroscopic)

Safety Considerations:

Before handling and using of product, the personnel must be aware of the dangers implied. This information is available in SDS and on the product label.

Attention:

Please contact CHIMCOMPLEX BORZESTI-Ramnicu Valcea Branch to see if the document has been revised and for any other additional information related to the product.

Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of non-compliance with the information provided herein.