Neopentyl Glycol

CAS Number: 126-30-7
Chemical Formula: $C_5H_{12}O_2$

DESCRIPTION

Neopentyl Glycol is a high-purity aliphatic diol supplied in the form of white crystalline flakes. Owing to its highly substituted molecular structure, it exhibits excellent thermal stability, low reactivity and strong resistance to hydrolysis, making it a preferred intermediate for durable resin and polymer systems.

KEY FEATURES

- High-purity aliphatic diol (≥99%)
- Excellent thermal stability and heat resistance
- Strong resistance to hydrolysis and chemical degradation
- Low reactivity for improved formulation stability
- Produces durable, weather-resistant polymer and resin systems
- Suitable for high-performance coatings, resins, and lubricant applications

APPLICATIONS

- Polyester resins for coatings, composites, and engineered plastics
- Alkyd resins for industrial and decorative coatings
- Powder coatings requiring enhanced thermal and chemical resistance
- Synthetic lubricants and ester-based oils
- Plasticisers and specialty polymer intermediates

TYPICAL SPECIFICATIONS

Parameter	Specification
Appearance	White crystalline flakes
Purity (GC, wt%)	≥ 99.0
Water (KF, wt%)	≤ 1.0
Acidity (%)	≤ 0.1
Colour (50% aqueous solution, Hazen)	≤ 15
Melting Point (°C)	124 – 130

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PLEASE READ CAREFULLY.

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- 20 kg bags
- Other packaging formats may be available upon request.

STORAGE

Store in a cool, dry, and well-ventilated area, protected from moisture and direct heat sources. Keep containers tightly sealed when not in use to prevent moisture uptake and contamination. Handle using standard chemical handling practices and appropriate industrial hygiene procedures.

SAFETY & HANDLING

Neopentyl Glycol is handled as an industrial chemical. Avoid inhalation of dust and prolonged contact with eyes or skin. Use appropriate personal protective equipment. Refer to the Safety Data Sheet (SDS) for detailed safety, handling, and regulatory information.