

# HEXYLENE GLYCOL



CAS Number: 107-41-5

Other Names: 2-Methylpentane-2,4-diol; 2,4-Pentanediol, 2-methyl-Isol  
2,4-Dihydroxy-2-methylpentane; Diolane

Formula:  $C_6H_{14}O_2$

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## PRODUCT INTRODUCTION

Hexylene glycol (also known as HGL) is a clear, colourless liquid with a characteristic odour. It is fully miscible in water and has the chemical formula  $C_6H_{14}O_2$ . Hexylene glycol is a compound that appears in a large number of products that are used commercially and industrially.

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## PHYSICAL AND CHEMICAL PROPERTIES

Physical State And Appearance	Colorless Liquid
Odor	Sweetish
Molecular Weight	118.18 g/mole
Boiling Point	197 (386.6) - 198° C
Flash Point	97° C
Melting Point	-50°C
Specific Gravity	0.9254 @ 17 C; 0.9234 @ 20 C (Water = 1)
Vapor Pressure	0.05 mm of Hg (@ 20)
Vapor Density	4.1 (Air = 1)
Odor Threshold	50 ppm
Solubility	Easily soluble in cold water. Soluble in diethyl ether. Soluble in alcohol, lower aliphatic hydrocarbons. Soluble in a variety of organic solvents. Miscible with fatty acids
Water, wt%	0.018
Specific Gravity @ 20/20C wt%	0.9232

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## APPLICATIONS

- The single largest user of hexylene glycol is the industrial coatings industry which uses approximately 45% of the HGL produced world-wide.
- It is a component in lacquers and varnishes, and is a solvent plasticiser in surface coatings.
- It is also a component in both oil and water- based paints, and in paint strippers.
- Hexylene glycol is also used as a chemical intermediate, which accounts for approximately 20% of its consumption, and another 10% is used on oil and natural-gas fields where it is both a down hole lubricant, and a grinding and extraction aid.
- Hexylene glycol is also employed as antifreeze, and as a coupling agent for hydraulic fluids.
- It is a moisturising, and setting, agent in the manufacture of textiles and can also be found in the cosmetics industry where it is a component of fragrances and bath, hair, and soap preparations.
- It also has a role as a wetting agent in pesticide formulations and is a solvent in the preparation of dyes.

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## PACKAGING OPTIONS

Drums

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