

HEXYLENE GLYCOL (HG)

CAS N° 107-41-5

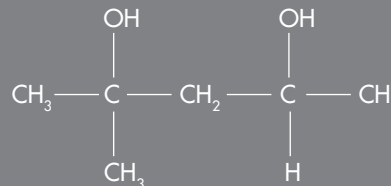
GENERAL CHARACTERISTICS

Hexylene Glycol is fully soluble in water; it is slightly hygroscopic and forms no azeotrope with water. As a result, it has excellent wetting and dispersing properties in addition to its ability to penetrate fibrous substrates such as paper, textiles and leather. It significantly lowers the surface tension of water.

HG is used in many applications as an additive, a co-solvent or as a viscosity reducer.

MAIN APPLICATIONS

- Agrochemical:** HG is used as co-solvent in the formulation of Emulsifiable Concentrate (EC). The performance of HG allow to prepare a clear and stable emulsion and its content in the formulation of the EC could be up to 40%.
- Cosmetics and Fragrances:** Viscosity adjustment additive (shampoos, shower gels, creams). Solvent for di or triphasic oils such as bath oils. Synthesis intermediate in the perfume industry. Solvent used in the production of lipstick and beauty creams thanks to its affinity for coloring agents, oil and fats as well its low hygroscopicity.
- Concrete formulation:** HG is used as anti-shrinkage agent lowering the surface tension of water contained in concrete. It prevents shrinkage of concrete during drying.
- Textile and Leather:** Additive for spinning, dyeing, weaving of natural and synthetic fibers – softening agent, anti-wrinkle, anti-static or co-emulsifying agent, solubilization improver and wetting agent.
- Lubricants:** Manufacture of high pressure additives for lubricants. Co-solvent for hydraulic fluids and cutting oils.
- Paints, varnishes and inks:** Coalescing agent for water based paints containing acrylic or vinyl dispersions. Retarder solvent, improves the brushing properties of oil and glycerophthalic paints. HG is used in inks for screen printing.
- Detergent:** Solvent for surfactant manufacture. HG is used in the preparation of cleaning products for glass (antimisting agent and de-icer for windscreens).
- Adhesives:** HG is used as an additive in glue formulations thanks to its ability to penetrate fibrous substrate (polyvinyl dispersion, starch, gelatin glues). HG is used as polymer chain extender in bi-component polyurethane adhesives for the automobile industry. It adds rigidity and resistance to adhesive formulations.
- Pharmaceutical industry:** Solvent for hydrophilic/hydrophobic molecules used during extraction from plants.



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