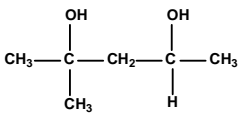


# HEXYLENE GLYCOL

- Acronym : **HG**
- Synonym : **2-Methyl-2,4-pentanediol**
- CAS number : **107-41-5**
- EC number : **203-489-0**
- REACH registration number : **01-2119539582-35-0000**

## MAIN PROPERTIES

	Values	Arkema methods	Norms references
Composition	$C_6H_{14}O_2$ : 		
Appearance at 20°C	Clear liquid free from suspended materials	LCR 1116	ASTM D 4176
Color (Pt-Co)	≤ 10	LCR 1002	ASTM D 1209
Purity (% by weight)	≥ 99.5	LCR 2181	GC
Water Content (% by weight)	≤ 0.10	LCR 1007	ASTM D 1364
Acidity as acetic acid (% by weight)	≤ 0.005	LCR 1004	ASTM D 1613
Density at 20°C (g/cm <sup>3</sup> )	0.920 - 0.923	LCR 1062	ASTM D 4052
Distillation range (°C)	195.0 - 200.0 (*)	LCR 1123	ASTM D 1078

The above commercial specifications are guaranteed ; they were established using the test methods which were in force at the plant at the time of despatch of the product, and are in accordance with any applicable revision references. . (\*) guaranteed values not reported on analysis certificates.

## MAIN APPLICATIONS

- **Paints, inks and varnishes** : Co-solvent for water based paints, and solvent in oil based & glycerophthalic paints used to increase the drying time.
  - **Pharmaceutical industry** : Solvent of hydrophilic / hydrophobic molecules used during their extraction from plants.
  - **Concrete** : used as a shrinkage reduction admixture
  - **Chemical synthesis** : Used as a solvent or intermediate for synthesis (perfume industry, pharmaceuticals...)
  - **Cosmetics** : Synthesis of intermediates in perfume industry. Viscosity agent additive. Coupling agent. Registered on the INCI (International Notification Of Cosmetic Ingredients).
  - **Detergents** : Synthesis of intermediates in the manufacturing of additives. Coupling agent.
  - **Lubricants, Metal working fluids** : Synthesis of intermediates in the manufacturing of additives. Coupling agent.
  - **Textile et leathers** : Additive for spinning, dyeing, weaving of natural & synthetic fibers. Softening agent, anti-wrinkle, anti-static – coemulsion agent. Solubilisation enhancer and wettability agent.
  - **Others** : Fire extinguisher foams, anti-freeze, organic peroxides
- For further informations, please contact our technical services.

# HEXYLENE GLYCOL

## PACKAGING

Hexylene glycol is supplied in bulk by road tankers, isocontainers, IBC of net weight 870 kg, and in drums of net weight 195 kg .

## STORAGE / SAFETY / PRECAUTIONS DURING USE / HANDLING

Please refer to the safety data sheet before any use. Typical shelf life at 25°C is more than 12 months.

## PHYSICAL DATA

Molecular weight.....	118.18
Boiling point at 1013 hPa .....	197.5°C
Vapor pressure at 20°C .....	0.07 hPa
Relative evaporation rate (n-butyl acetate = 1) .....	0.01
Freezing point .....	- 40 °C
Viscosity at 20°C.....	38 mPa.s
Surface tension at 25°C .....	28.5 mN/m
Refractive index at 20 °C.....	1.4276
Latent heat of vaporization .....	452 kJ/kg
Specific heat (liquid at 20°C) .....	1.99 kJ/kg/K
Heat of combustion at 25°C.....	29880 kJ/kg
Flash point (closed cup) .....	97 °C
Autoignition temperature .....	306 °C
Explosivity limits in air (lower / upper).....	1.3 / 9.0 % (v/v)
Electrical conductivity at 22 °C .....	0.24 µS/m
Water solubility at 20 °C .....	complete
Azeotrope with water : none.....	
Hansen solubility parameters at 25°C ( $\delta$ t, $\delta$ d, $\delta$ p, $\delta$ h) .....	25.2 / 15.8 / 8.4 / 17.8 MPa <sup>1/2</sup>

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See MSDS for Health & Safety Considerations