

TECHNICAL DATA SHEET

Hexylene Glycol

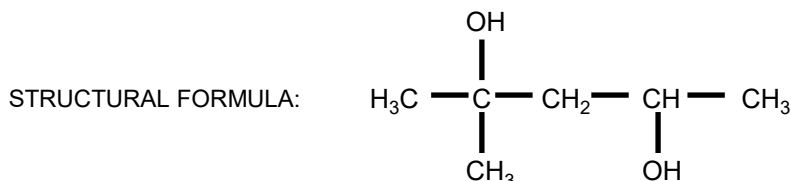
REFERENCE

UQP-2-SOL-FP-009 version: 22

March 2023

IDENTIFICATION

CAS NUMBER: 107-41-5



MOLECULAR FORMULA: $\text{C}_6\text{H}_{14}\text{O}_2$

MOLECULAR WEIGHT: 118.06

SYNONYMS

HGL; Diolane; Isol; Pinakon; 1,1,3-Trimethyl-Triethylenediol; Diacetone Glycol; Methylamilene Glycol; 2,4-Dihydroxy-2-Methyl-Pentane; 2-Methyl-Pentane-2,4-Diol.

SPECIFICATIONS

DETERMINATIONS	LIMITS	SOLVAY METHOD	REFERENCE DOCUMENT
PURITY, (wt. %), MIN.	99.0	NA - 1759	RHODIA/SOLVAY
SPECIFIC GRAVITY 20/20°C	0.921 - 0.924	NA - 0497	ASTM D-4052
COLOR, (Pt-Co), MAX.	10	NA - 1726	ASTM D-1209
ACIDTY AS ACETIC ACID, (wt. %), MAX.	0.005	NA - 0433	ASTM D-1613
DISTILLATION RANGE AT 760 mmHg, (°C)	195.5 – 198.5	NA - 1748	ASTM D-1078
WATER, (wt. %), MAX.	0.1	NA - 1760	ASTM D-1364
WATER MISCIBILITY	PASSES TEST	NA - 0935	ASTM D-1722

GENERAL CHARACTERISTICS

HEXYLENE GLYCOL is a colorless and limpid liquid, with a characteristic sweetened smell, viscous and poorly hygroscopic. It is miscible with the most common organic solvents, fat acids and water.

MAIN APPLICATIONS

HEXYLENE GLYCOL is a low-evaporating solvent with complete solubility with water. It is widely used in applications such as Aqueous emulsions (PVA/Acryls), Paint and Varnishes, Hydraulic fluids, Oils and emulsions to Textile and Leather industries, Anti-caking for cement and siliceous derived industries, Pesticides, Perfumery and Cosmetics, synthesis of intermediates, active pharmaceutical ingredients and in the preparation of intermediates and active pharmaceutical ingredients of vegetal sources and in the classic biological processes for intermediates and active pharmaceutical ingredients production. The direct use in the processing of medicines and foods is not recommended.

Solvay - Coatis

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PHYSICAL PROPERTIES

• Boiling point at 760 mmHg (°C)	197.7
• Freezing point (°C)	-50.0
• Liquid density 20°C (g/cm ³)	0.923
• Vapor density (air = 1)	4.1
• Vapor pressure 20°C (hPa)	0.067
• Solubility at 20°C (% w/w)	In water..... Complete
• Evaporation rate (n-butyl acetate = 100)	Water in..... Complete
• MIR ⁽¹⁾ (Maximum Incremental Reactivity)	g O ₃ /g VOC..... 1.04
• Flash point (°C)	Closed cup >97
• Explosivity limits in the air (% , v/v)	Lower..... 1.3
	Upper..... 9.0

(1) - Potential ozone formation catalyzed by sunlight

PACKING

	CODE
Product in bulk	29276
Product in container (920 kg)	131017
Product in drums (193 Kg)	171703
Product in drums (193 Kg) - China	171704
Product in drums (193 Kg) - Greece	171705
Product in drums (193 Kg) - Korea	171706

SHELF LIFE

The expiration date is 18 months from the manufacture date, defined through laboratories studies. External factors may influence in the date described. **Solvay** is not responsible for the observance of the necessary conditions to the maintenance of the expiration date after the delivery of the product to the acquirer. It's recommended the full compliance with the storage conditions indicated in the "Safety Data Sheet".

SALES

HEXILENOGLICOL is marketed directly by **Solvay** for bulk orders. Network of authorized distributors in the product is sold in containers, drums and other containers.

TRANSPORT, STORAGE AND SAFETY INSTRUCTIONS

Please consult our "Safety Data Sheet".

The information contained in this document is supplied in good faith. However it is purely given as an indication. It shall not be considered in any way as a formal commitment or warranty on our part, notably in respect of the possible infringement of any rights of third parties which may be caused through use of our product.

TECHNICAL ASSISTANCE

The technical staff of **Solvay** is at your disposal to give more information about this product.

This specialized staff works with a technically advanced laboratory for the development of solvent systems.

All the information contained in this document is supplied in good faith and is based in our current knowledge. They are only indicative and do not in any way, configure responsibility for infractions or damages to third persons due to the use of our products. We guarantee that our products fully comply with our commercial specifications

This information does not have to be used as a replacement to the necessary previous tests in order to assure that the product is adjusted for the intended application. The users are responsible for assuring the fulfillment of the local laws and for the certificates and authorizations required. We request the users to verify if they have the latest available version of this document and we are pleased to deliver additional information whenever needed.

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