

TECHNICAL DATA SHEET

Augeo® Crystal

REFERENCE

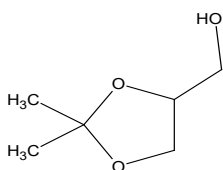
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March 2024

IDENTIFICATION

CAS NUMBER: 100-79-8
 INCI: Isopropylidene glycerol

STRUCTURAL FORMULA:



MOLECULAR FORMULA: C₆H₁₂O₃
 MOLECULAR WEIGHT: 132.16

SYNONYMS

Isopropylidene Glycerol; 2,2-Dimethyl-4-Hydroxymethyl-1,3-Dioxolane; 2,2-Dimethyl-1,3-Dioxolane-4-Methanol.

SPECIFICATIONS

DETERMINATIONS	LIMITS	SOLVAY METHOD	REFERENCE DOCUMENT
APPEARANCE	Clear Liquid	NA – 1863	ASTM D-2090
PURITY*, (wt.%), MIN.	99.50	NA – 1864	SOLVAY
SPECIFIC GRAVITY 20/20°C	1.0670 – 1.0710	NA – 1862	ASTM D-4052
COLOR, (Pt-Co), MAX.	10	NA – 1861	ASTM D-1209
ACIDITY AS ACETIC ACID, (wt.%), MAX.	0.0200	NA – 1859	ASTM D-1613
WATER, (wt.%), MAX.	0.100	NA – 1860	ASTM D-1364

* Purity: Isopropylidene Glycerol + Isomer (2,2-Dimethyl-5-Hydroxy-1,3-Dioxane; typical content: 1.4%)

GENERAL CHARACTERISTICS

AUGEO® Crystal is a colorless and clear liquid, non-corrosive, low volatility and low toxicity, slight odor. It is miscible in organic solvents and water.

MAIN APPLICATIONS

AUGEO® Crystal is a renewable source solvent developed for the segments of Surface Care, Fragrances, Air Care and Personal Care, whose applications need products that meet specific market requirements.

AUGEO® Crystal is a ketal and presents good stability in neutral and alkaline pH, in aqueous and non-aqueous solutions at any temperature.

However, it cannot be manipulated in acid step of process in presence of water or in acidic aqueous formulations, because it can degrade under these conditions.

Solvay - Coatis

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Progress beyond

PHYSICAL PROPERTIES

• Boiling range at 760 mmHg (°C)	183 - 191
• Freezing point (°C)	-99.0
• Liquid density 20/20°C	1.069
• Solubility at 20°C	In water.....	Complete
	Water in.....	Complete
• Kauri-butanol value	>500
• Evaporation rate (n-butyl acetate = 100)	2.7
• MIR ⁽¹⁾ (Maximum Incremental Reactivity)	g O ₃ /g VOC.....	2.01
• Flash point (°C)	Closed cup.....	91.0
	Open cup.....	100.0
• Viscosity at 20°C (cPs)	11

(1) - Potential ozone formation catalyzed by sunlight

PACKING

	CODE
Product in bulk	154024
Product in drums (210 Kg)	154025
Product in drums (210 Kg) - China	174012
Product in drums (210 Kg) - Korea	174013

SHELF LIFE

The expiration date is 24 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

AUGEO[®] Crystal is directly commercialized by **Solvay** to orders of 210 Kg drums and bulk.

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.