REFERENCE
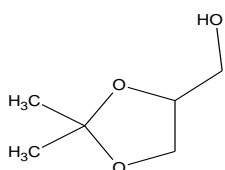UQP-2-SOL-FP-128 version: 01   February 2019

IDENTIFICATION

CAS NUMBER: 100-79-8
INCI   Isopropylideneglycerol

STRUCTURAL FORMULA:

MOLECULAR FORMULA: $C_6H_{12}O_3$
MOLECULAR WEIGHT: 132.16

SYNONYMS
Di-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 – 0199	ASTM D-2090
PURITY*, (wt.%), Min.	99.50	NA – 1759	SOLVAY
SPECIFIC GRAVITY 20/20°C	1.067 – 1.071	NA – 0497	ASTM D-4052
COLOR, (Pt-Co), Max.	10.0	NA – 1726	ASTM D-1209
ACIDTY AS ACETIC ACID, (wt.%), Max.	0.02	NA – 0433	ASTM D-1613
WATER, (wt.%), Máx.	0.10	NA – 1760	ASTM D-1364

* Purity: Di-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.

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

SHELF LIFE

The expiration date is 12 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.