

GENERAL INFORMATION	
Product Classification	High Purity Liquid Carbondioxide 99.9%
Product Code	EC: E290 / UN-NA: 2187 / CLASS: 2.2
Customs HS Code	281121
Producer	Green Energy Chemicals
Raw Material	Agricultural Origin
Packaging Types	Bulk
Product Description	GEC Liquid CO ₂ is produced as a result of corn fermentation process. It is suitable for various sectors including food, beverage, medical, welding, etc.

PARAMETERS	METHOD	UNIT	SPECIFICATION
Purity (Assay)	ISBT Procedure 2.0	%v/v	Min. 99,9
Moisture (H ₂ O)	ISBT Procedure 3.0	ppm	Max. 20
Oxygen (O ₂)	ISBT Procedure 4.0	ppm	Max. 30
Carbon Monoxide (CO)	ISBT Procedure 5.0	ppm	Max. 10
Oxides of Nitrogen (NO _x)	ISBT Procedure 7.0	ppm	Max. 5
Nitrogen Monoxide (NO)	ISBT Procedure 7.2	ppm	Max. 2,5
Nitrogen Dioxide (NO ₂)	ISBT Procedure 7.1	ppm	Max. 2,5
Non-volatile Residue (NVR)	ISBT Procedure 8.0	ppm	Max. 10
Non-volatile Organic Residue (NVOR)	ISBT Procedure 8.0	ppm	Max. 5
Methanol (CH ₃ OH)	ISBT Procedure 9.0	ppm	Max. 10
Total Hydrocarbons (THC) (as Methane)	ISBT Procedure 10.0	ppm	Max. 50
Total Non-Methane Hydrocarbons (TNMHC)	ISBT Procedure 10.1	ppm	Max. 20
Ammonia (NH ₃)	ISBT Procedure 6.0	ppm	Max. 2,5
Acetaldehyde (AA)	ISBT Procedure 11.0	ppm	Max. 0,2
Aromatic Hydrocarbon (C ₆ H ₆)	ISBT Procedure 12.0	ppb	Max. 20
Total Sulfur – (TS)(Total sulfur impurities excluding sulfur dioxide)	ISBT Procedure 13.0	ppm	Max. 0,1
Sulfur Dioxide (SO ₂)	ISBT Procedure 14.0	ppm	Max. 1
Odor of Solid CO ₂ (Snow)	ISBT Procedure 15.0		No foreign odor
Appearance of Solid CO ₂ (Snow)	ISBT Procedure 15.0		No foreign appearance
Odor & Taste in Water	ISBT Procedure 16.0		No foreign odor or taste
Appearance in Water	ISBT Procedure 16.0		No color or turbidity

**Product Composition and Labeling**

Liquid carbondioxide. Labeling information is not required for bulk products.

Regulatory Status

This product complies with;

- The International Society of Beverage Technologists (ISBT) – Beverage Grade Quality Bulk Carbon Dioxide
- Turkish Food Codex Regulation on Specification of Food Additives – E 290 Carbon Dioxide

Storage & Distribution

Must be stored in special pressurized tanks.

It is transported with vehicles that have an ADR Conformity Certificate and a Vehicle Conformity Certificate in accordance with the Regulation on the Transport of Dangerous Goods by Road published in the Official Gazette dated June 18, 2022, and numbered 31870. Tanker Trucks are designated for the transport of food products.

Allergen & GMO Status

This product is allergen free and GMO free. This products complies with;

- Substances Or Products Causing Allergies Or Intolerances listed in Regulation (EU) No 1169/2011 of the European Parliament and of the Council of 25 October 2011 on the provision of food information to consumers
- Regulation (EC) No 1829/2003 of the European Parliament and of the Council of 22 September 2003 on genetically modified food and feed
- Regulation (EC) No 1830/2003 of the European Parliament and of the Council of 22 September 2003 concerning the traceability and labelling of genetically modified organisms and the traceability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC

Intended Use

Food & beverage, dry ice, medical, industrial welding, chemical industry, water treatment, fire extinguishing, refrigeration, etc.

Origin

Turkey