

CHENGDU HUARONG INTERNATIONAL TRADE CO., LTD.

Address: 2-3F, No.166 LinYang Road, JiuChi Town, Pengzhou, Sichuan, China

Product Name	Ethylene Carbonate(EC)		
Molecular Formula	C ₃ H ₅ O ₄	HS CODE	2920900090
Molecular Weight	105.0699	Flash Point	160℃
CAS NO.	96-49-1	Density	1.3218
EINECS NO.	202-510-0	Boiling Point	248℃/760mmHg, 243-244℃/740mmHg
Viscosity	1.90 mPa.s (40℃)	Refractive Index	1.4158(50℃)
Melting Point	35-38℃		

Technical Data Sheet

1. Basic Information:

2. Product Index:

Test Items	Testing Standard	Index				
		Industrial-Grade	Pharmaceutical-Grade	Electronic-Grade	Cell-Grade	Better-Cell-Grade
Chroma≤	Platinum Cobalt Contrast	30	20	10	5	5
Epoxy Ethane ≤%	Chromatographic Detection	0.0800	0.0300	0.0200	0.0050	0.0002
Ethylene Glycol≤%		0.1500	0.0500	0.0300	0.0050	0.0005
Ethylene Carbonate≥%		99.5000	99.9000	99.9500	99.9900	99.9990
Water≤ppm	Karl Fischer Titration	500	300	150	50	10
Appearance	Transparent colorless liquid (>35℃), crystalline solid at room temperature					
Density	1.3218					

3. Product Application:

Ethylene carbonate (EC) is a new type of chemical material. It is an organic solvent

with excellent properties and can dissolve many kinds of polymers. In addition, it can be used as an organic intermediate in dioxylation reaction instead of ethylene oxide, and it is the main raw material for the production of dimethyl carbonate by transesterification. It can also be used as raw material for synthesis of furazolidone, sodium silicate slurry, fiber finishing agent, etc. It can also be used as an active intermediate in the production of lubricating oil and grease, and is a good solvent for polyacrylonitrile and polyvinyl chloride. It can be used as a spinning liquid on textile. It can also be directly used as a solvent to remove acid gas and used as an additive to concrete. It used in medicine as an ingredient or raw material in a pharmaceutical production; It can also be used as a stabilizer for plastic foaming agent and synthetic lubricating oil. In the battery industry, it can be used as an excellent solvent for lithium battery electrolyte.

4. Package:

250KG Galvanized Iron Drum or IBC Tank

5. Storage and transportation methods

This product should be stored in a cool, ventilated, dry place and transported in accordance with general chemical regulations.

WWW.CHEMBALL.COM