



China Best Price Electronic Grade 99.999% 5n C₂H₄ Cylinder Gas Ethylene

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: C₂H₄
- Minimum Order Quantity: 1kg
- Price: US \$2/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 50000kg/month



Product Specification

- Product Name: Ethylene Gas
- Boiling Point: -103.9°C
- Valve: Qf-30A/Cga50
- Melting Point: -169.4°C
- Appearance: Colorless
- Transport Package: 40L, 47L, 50L, ISO Tank
- Specification: 40L, 47L, 50L, ISO Tank
- Trademark: CMC
- Origin: China
- HS Code: 2901210000
- Supply Ability: 500000tons/Year
- CAS No.: 74-85-1
- Formula: C₂H₄
- EINECS: 200-815-3
- Constituent: Industrial Pure Air



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Product Description

Product Description

Ethylene gas (C₂H₄) is a colorless and flammable hydrocarbon gas composed of two carbon atoms bonded to four hydrogen atoms. It is naturally produced by plants as a hormone and also has various industrial applications. Here are some key points about ethylene gas:

Properties: Ethylene gas has several important properties:

Flammability: Ethylene is a highly flammable gas that can form explosive mixtures with air. It has a lower flammability limit (LFL) of 2.7% and an upper flammability limit (UFL) of 36%.

Odor: Ethylene gas itself is odorless. However, commercial-grade ethylene may contain a small amount of a sulfur-based odorant to aid in leak detection.

Density: Ethylene gas is slightly lighter than air, so it tends to rise and disperse in the atmosphere.

Natural Plant Hormone: Ethylene is a naturally occurring plant hormone involved in various physiological processes, including:

Fruit Ripening: Ethylene plays a crucial role in the ripening of fruits. It triggers changes in color, texture, and flavor, promoting fruit ripening and softening.

Flowering: Ethylene influences flower development and blooming in some plant species.

Senescence: Ethylene is involved in the aging and senescence of plant tissues, leading to leaf yellowing and abscission.

Industrial Applications: Ethylene gas is widely used in various industrial applications, including:

Petrochemical Industry: Ethylene is a fundamental building block for the production of numerous chemicals. It is used as a raw material in the synthesis of polyethylene (the most widely produced plastic), as well as ethylene oxide, ethylene glycol, vinyl chloride, and other important chemicals.

Agriculture: Ethylene is used in controlled environments to trigger fruit ripening and improve the uniformity of ripening in certain crops.

Welding and Cutting: Ethylene can be used as a fuel gas in oxyfuel welding and cutting processes, although it is less common than acetylene.

Safety Considerations: Ethylene gas is flammable and should be handled with caution. Here are some safety considerations:

Storage and Handling: Ethylene gas should be stored in appropriate containers or cylinders designed for flammable gases. It should be stored in well-ventilated areas, away from ignition sources and heat.

Fire Hazards: Ethylene gas can form explosive mixtures with air. Therefore, precautions should be taken to prevent the accumulation of flammable concentrations and to minimize the risk of ignition.

Toxicity: Ethylene gas itself is not highly toxic. However, high concentrations of ethylene in confined spaces can displace oxygen, leading to an oxygen-deficient environment. Proper ventilation is essential when working with ethylene gas.

Overview

Basic Info.

Molecular Weight	28.06	Density	1.178Kg/m³
Melting Point	-169.4°C	Boiling Point	-103.9°C
Appearance	Colorless	Un No.	1962
DOT Class	2.1	Valve	QF-30A/CGA50
Cylinder Standard	GB/ISO/DOT	Cylinder Pressure	12.5Mpa/15Mpa/20Mpa
Transport Package	40L/47"/50L	Specification	99.95%%
Trademark	CMC	Origin	China
HS Code	2901210000	Production Capacity	500000tons/Year

Specification:

CAS No.: 74-85-1

EINECS No.: 200-815-3

UN No.: UN1962

Purity: 99.95%

Dot Class: 2.1

Appearance: Colorless

Grade Standard: Agriculture Grade, Industrial Grade

C ₂ H ₄ - Ethylene	99.95% min	Units
CH ₄ +C ₂ H ₆	≤500ppm	ppm
C ₃ and higher	≤10	ppm
CO	≤1	ppm
CO ₂	≤5	ppm
O ₂	≤2	ppm
C ₂ H ₂	≤3	ppm
S	≤1	mg/kg

H2	≤5	ppm
CH3OH	≤5	mg/kg
C2H6O	≤1	mg/kg
H2O	≤5	ppm

Packaging & Shipping

Product	Ethylene C2H4		
Package Size	40Ltr Cylinder	50Ltr Cylinder	T75 ISO Tank
Filling Net Weight/Cyl	10Kgs	17Kgs	9 Tons
QTY Loaded in 20'Container	250 Cyls	250 Cyls	1 Unit
Total Net Weight	2.5 Tons	4.0 Tons	9 Tons
Cylinder Tare Weight	50Kgs	55Kgs	8170kgs
Valve	QF-30A / CGA350		

Company Profile

Detailed Photos



Company Profile

ShangHai CMC chemical Co.,Ltd. is staffed by trained personnel, combine many years experience in Gas industry .We supply cylinder gas, electronic gas, etc ., and the gas holder, panel, valves and fittings and other equipment, parts and engineering services to our customers in China and worldwide; The products are involved in various industrial fields, such as semiconductor chip, solar cell, LED, TFT-LCD, optical fiber, glass, laser, medicine , etc., Our mission is to partner with our global customers to provide support, solutions and quality products that are innovative, reliable, and safe. Our products mainly include: H2, O2, N2, Ar, CO2, propane, acetylene, helium, laser mixed gas, SiH4, SiH2Cl2, SiHCL3, SiCL4, NH3, CF4, NF3, SF6, HCL, N2O, doping mixed gas (TMB, PH3, B2H6) and other electronic gases.

SiCl ₄	NH ₃	NH ₃	CH ₃ F	SiH ₄	Kr	H ₂ S	WF ₆	F ₆ +Cl ₂
4MS	C ₃ F ₈	C ₃ F ₈	TEOS	CH ₄	PH ₃	SF ₆	C ₂	HCl+Ne
CF ₄	C ₄ F ₈	SiH ₂						TMB+H ₂
SiF ₄	C ₃ H ₈	Cl ₂						He +As
BBr ₃	C ₃ H ₆	DCE						Ge+Se
POCl ₃	N ₂	SO ₂						D+B
BCl ₃	D ₂	CO ₂						CO+NO
SiHCl ₃	CH ₂ F ₂	HF						Ar+O ₂
TMAI	DMZn	DEZn						Xe+NO
AsH ₃	C ₂ H ₄	C ₂ H ₂	HBr	COS	Ar+O ₂			
GeH ₄	C ₂ H ₆	B ₂ H ₆	H ₂ Se	GeCl ₄	Xe+NO			

Certifications



Workshop Display:



Monitor



Laboratory



Equipment

Zone of rectification



Gas filling



Equipment



Shipping Methods





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