




Hydrocarbon Pure Gases and High Volume Mixtures



MATHESON

The Gas Professionals



MATHESON offers the most comprehensive supply of the highest grade hydrocarbons available on the market today.

Research and Application Areas:

- R&D Centers and Pilot Plants
 - Catalyst
 - Polymer
 - Petrochemical
 - Fuel Cell
- National Laboratories
- Refrigerants
- Semiconductor
- Propellants
- High-purity Fuel Source

Technical Expertise

- State-of-the-art purification systems
- Distillation columns
- Multi-purpose reactors

Custom Product Development

We will partner with you to develop the products you need, at the purity you need, and in the packaging you need. Custom product development is our specialty.

Quality Control

Our comprehensive laboratory facilities analyze stated impurities to comply with specified impurity concentrations.



Standard Products

More than 20 standard products are available in purities from 99.5% to 99.9999%.

	PURITY					
	6N	5N	4N	3N	2N	<2N
Methane	•	•	•	•	•	
n-Butane		•	•	•	•	
Carbon Monoxide		•	•	•	•	
Ethane		•	•	•	•	
Ethylene		•	•	•	•	
Propane		•	•	•	•	
Carbon Dioxide		•	•			
Isobutane			•	•	•	
Propylene			•	•	•	
1-Butene				•	•	
Isobutylene				•	•	
Vinyl Chloride				•		
Cis-2-Butene					•	
Mixed 2-Butenes					•	
Trans-2-Butene					•	
Dimethyl Ether					•	
Isopentane					•	
n-Pentane					•	
Propadiene (Allene)						•
1,2 Butadiene						•
Methyl Acetylene						•

Don't see your required product or purity, please call or e-mail us.

*For standard product specifications and sizes please visit the **MATHESON** Website at www.mathesongas.com*

Cylinders, Tanks or Trailers

Standard and custom products are offered in many size containers.

Wide range of packaging options:

- Small to large cylinders
- Cylinders in batch quantities
- 1/2 tonners
- Bulk, including iso-tanks and tube trailers

Customer Care

- Dedicated customer service representatives
- Competitive pricing
- Volume flexibility

International Orders

MATHESON has considerable experience in supplying overseas markets. More than 50% of our products are supplied internationally.

Our experts understand the documentation requirements and import regulations of all major countries enabling our customers to enjoy quick and easy importation.



High Volume Hydrocarbon Mixtures

MATHESON capability to blend High Volume Hydrocarbon Mixtures is characterized by the following:

- **Containers for Liquefied Hydrocarbon Mixtures**

Containers range from the ½ tonner (about 500 lbs of liquefied hydrocarbons) to tank trailers (about 25,000 lbs of liquid hydrocarbons).

- **Liquefied Hydrocarbon Components**

Liquefied hydrocarbon components will be in percent concentrations for alkanes and alkenes from carbon numbers C3, C4 and C5.

- **Containers for High Pressure Gas Mixtures**

High pressure cylinders can be blended in batches, plus there are high pressure tubes and tube trailers.

- **High Pressure Gas Mixture Components**

These components will normally be in relatively high percent concentrations so that the gases can be weighed into the cylinders. Methane, Ethane, and Ethylene are the high pressure gases. Propane may be included as a gaseous component below about 10% of the total concentration. Butane isomers may also be included as a gaseous component below about 5% concentration.

- **Components' Purity**

MATHESON purifies our own hydrocarbons so that we can offer commercial purity through Research purity hydrocarbons for the gas or liquid mixture. **MATHESON** will review the application requirements and whether the application is sensitive to regulations or impurity specifications that define what grade of hydrocarbons are required.



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