



**A Leading Manufacturer of Specialty Solvents in China.**

Pentanes·Hexanes·Octanes·Buntanes·D Series Solvents





# Junyuan Petroleum Group

Junyuan Petroleum Group is a leading manufacturer of pentanes, hexanes, octanes, butanes and D solvents with manufacturing facilities in Shandong and Xinjiang, China.



# HISTORY

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Junyuan Petroleum Group, founded in 2009 with the registered capital of 180 million RMB (roughly 27 million USD), is a general group gradually developed and improved, relying upon Dongying Junyuan Petroleum Technology Development Co., Ltd. Over the past eight years, Junyuan Petroleum Group has been continuously developed and expanded, and now incorporates five subsidiaries including Dongying Junyuan Petrochemical Technology Development Co., Ltd., Dongying Liangxin Petrochemical Technology Development Co., Ltd., Dongying Changyuan Petrochemical Technology Development Co., Ltd., Dongying Junyuan Logistics Co., Ltd, Sinkiang Liangxin Technology Development Co., Ltd and Orient Junyuan (Beijing) Technology & Trade Co., Ltd. They constitute a complete oil refining industry chain of Junyuan Petroleum Group.

# 2009

Founded in 2009 to solve a customer's speciality solvents needs

# 20+

More than 20 active products



Expansive global distributor networks

# 60+

Champions of more than 60 different technologies

## GROWTH



New, innovative product introductions every year



Market expansions through research and development



Technology growth from our dedicated research team



Geographic growth to better serve customers

# PEOPLE

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**Our customers can be confident that behind every sale is a team of dedicated people determined to make it a success.**

Junyuan Petroleum Group believes good service starts with good people. Our success is rooted in our team approach to business. Everyone working together as a team is the key to making sure customers' needs are being met at every level of the organization.

Our employees are some of the most well-respected members of the industry, many with top certifications and decades of experience. Wherever you are, we have experienced and knowledgeable people there, ready to support you.

## CUSTOMER SERVICE



Individual account management

Quick order entry process

Global coverage

## TECHNICAL SERVICE



Superior hands-on field support

On-location service available from start to finish

Highly trained industry experts

## LOCAL SALES SUPPORT



Fast and reliable system recommendations



Solving your problems is what we do



Send an email and receive a quick response



Call in and speak directly to knowledgeable support





# LOCATIONS

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## **Regardless of your location, we can deliver the products you need**

Junyuan's world-class, global organization can supply products anywhere in the world to meet your requirements. With 2 manufacturing facilities in China, we can consistently produce and deliver high-quality products to our customers worldwide.

Our global network of industrial service centers and distribution points are strategically located around the world to provide the highest level of customer service and support for your project. Anywhere in the world, anytime you need us, we'll be there.

# JUNYUAN LOCATIONS



Hundreds of warehouses  
worldwide by our partners



Two research and  
development facilities



More than 20 sales  
representatives



Manufacturing facilities  
located strategically in 2  
provinces in China

## ISO

ISO-certified facilities  
in Shandong and Xinjiang, China

# PRODUCTS

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## **We develop products that solve specialty solvent needs and offer real benefits.**

Product development at Junyuan is driven by a passion for performance and innovation. Our continued focus and understanding of our customers' needs drives product development.

All new products go through stringent internal and external testing. Rigorous product testing is meaningful, realistic, and based on decades of knowledge and experience. When a new product is released, we know it will perform.

Our comprehensive line of problem-solving technologies has earned the trust and confidence of customers around the globe.

# Applications of Junyuan Specialty Solvents

Pentanes.Pentane Blends.Hexanes.Octanes.Butanes



Plastics Industry  
Geothermal Energy  
Personal Care Products



Catalyst Production  
Tire & Rubber Manufacturing  
Gasoline



Veg Oil Extraction  
Plastics Industry  
Adhesives & Sealants  
Pharmaceutical Industry



Polyethylene  
Polypropylene  
Polyurethane



Adhesives & Sealants  
Paints & Coatings  
Pharmaceutical Industry



Rubber and Tire Industry  
Starter Fluid  
Pharmaceutical Industry

## PRODUCT CERTIFICATIONS

ISO 45001-OCCUPATIONAL HEALTH AND SAFETY  
MANAGEMENT SYSTEM CERTIFICATE

ISO 9001-QUALITY MANAGEMENT  
SYSTEM CERTIFICATE

2016 / ISO 14001-ENVIRONMENTAL MANAGEMENT  
SYSTEM CERTIFICATE

SGS CERTIFICATE

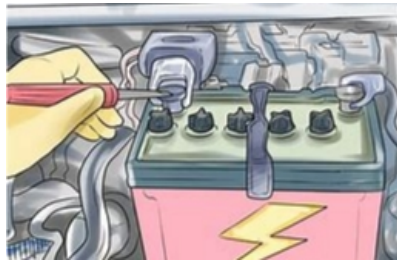
# MARKETS

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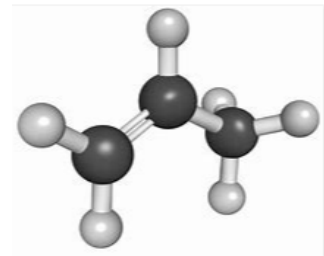
Junyuan offers high performance pentanes, hexanes, heptanes, octanes, and D solvent products for a variety of diverse markets. Each market has unique challenges that require unique product, which is why we have a specialized team of experts for every market we serve.



Vegetable Oil Extraction



Starter Fluid



Polypropylene



Geothermal Energy



Blowing Agents



Paints and Coatings



Rubber and Tire Industry



Pharmaceutical Industry



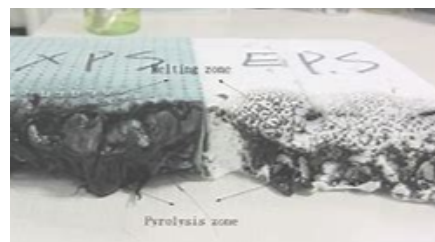
Organometallic Solvent



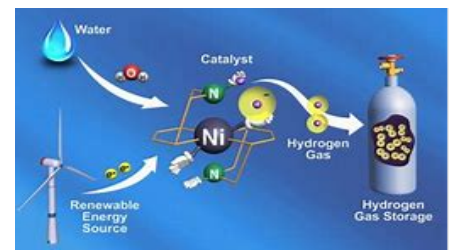
Heavy Oil and Bitumen Applications



Polyurethane



Expanded and Extruded Polystyrene



Catalyst Production





Headquarters open in a small village yard in Dongying

Junyuan begins to plan for development

2009

2010

Junyuan has only 10+ employees and roughly ten acres of land

Production capacity and output value doubles over the previous year

2011

The production plant begins to take shape

Junyuan's production capacity reaches nearly 100,000 tons

Junyuan embarks on the road of rapid business expansion

Junyuan's 2nd plant in Xinjiang is launched

Junyuan's business development takes off

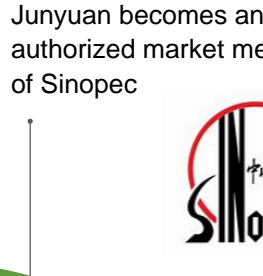
Junyuan's staff expands to hundreds

2012

With an annual output of 200,000 tons, Junyuan has taken off and expanded its wings for rapid business development.

Junyuan becomes an authorized market member of Sinopec

Junyuan becomes the No.1 manufacturer of reagent grade n-Hexane, 99% in China



In 2012, Junyuan's development momentum is overwhelming, with more than 100 employees



Junyuan's staff expands to hundreds



Junyuan's own internal journal Junyuan People is launched



Junyuan decides to produce industrial refrigerant according to the requirements of Unision standards in the US and the purity of the product reaches 99.9%

No.1 CHINA



Opening an office in Beijing is an important step in Junyuan's international expansion.



Junyuan obtains the sales network access certificate of Sinopec, PetroChina and CNOOC.

The Light Hydrocarbon and Aromatics Professional Committee of China Petroleum, Chemical Industry Federation are established in Beijing, Junyuan becomes the founding member

The two industrial standards of China, Isohexane for Industrial Use and Isopentane for Industrial Use, which are jointly formulated by Junyuan, enters the final stage of approval by the Ministry of Industry and Information Technology and The National Standards Committee



2020: Junyuan wins the honorary title of "Niche Champion Enterprise of the Manufacturing Industry"

Isohexane for Industrial Use (Hg / T5612-2019) and Isopentane for Industrial Use (Hg / T5613-2019) drafted by Junyuan in 2018 is officially implemented on July 1, 2020. Announcement No.61 of 2019 issued by the Ministry of Industry and Information Technology of the People's Republic of China



2020: Junyuan completes the R & D and commissioning of n-Heptane, 99% and n-Octane, 99% with the fastest speed, and successfully launches the two new products to the market



After 2 years of construction, Junyuan completes the Key Laboratory of Hydrocarbon Solvents in Dongying



The industrial standard of n-Pentane for industrial use jointly proposed by Sinopec Shanghai and Junyuan is listed in the national project plan in 2020.

Junyuan participates in the revision of the National Standard of Pentane Blowing Agent

2009-2019: Junyuan expands to 16 service centers across China

Junyuan's lab is recognized as Dongying Engineering Laboratory by Dongying Development and Reform Commission

Large expansion into 7 series of products: propane, pentane, hexane, solvent oil, aromatics, D Solvents and hydrogenated naphtha

Against the trend, Junyuan once again increases production investment, improve product quality in an all-round way



Explosive growth in the pentane and hexane market

Junyuan's hexanes and pentanes, stand out in the fierce competition market

Junyuan starts to transform and upgrade

Junyuan ranks No. 1 in specialty solvents industry competitive analysis in China market

People's Daily Reports: Junyuan Petroleum Group maintains the top position as the largest pentane blends manufacturer in China.

Junyuan fulfills the order of 1,500 tons pentane blowing agent to Middle East market

10 Years of Success!

Junyuan successfully passes the energy measurement review of key energy consumption enterprises

Mr. Miao Guangfa, Chairman of Junyuan Petroleum Group, is awarded the honorary title of May 1st Labor Medal of Shandong

The provincial Yellow River Delta Agricultural High-tech Zone conducts expert review on Junyuan's technical transformation and project safety

Another invention patent of Junyuan is authorized by the State Intellectual Property Office. The patent name is "a device and method for hydrotreating distillation separation and joint production of customized naphtha raw materials", patent No.: ZL 201711267832x.

2013

Junyuan becomes the only manufacturer that can produce n-Hexane with purity up to 99.99% in China

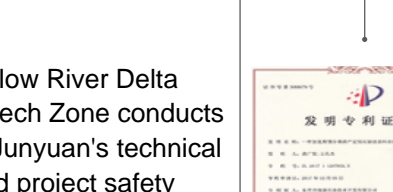
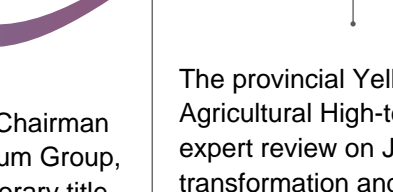
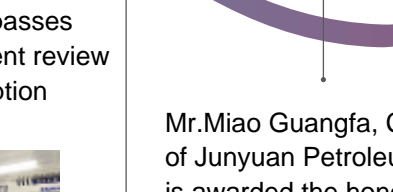
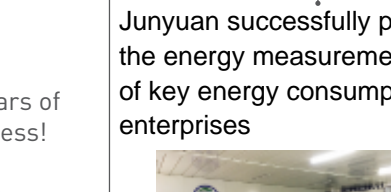
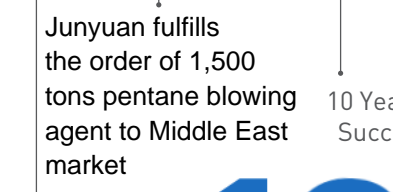
Introduction of 7x24 Rapid Customer Service for the growing maintenance business

Junyuan further develops its brand, which has a positive impact on n-Hexane and its upstream and downstream industries.

2014

Junyuan Service Center expansion

2015



Another invention patent of Junyuan is authorized by the State Intellectual Property Office. The patent name is "a device and method for hydrotreating distillation separation and joint production of customized naphtha raw materials", patent No.: ZL 201711267832x.



The project "Research and Industrialization of n-Hexane High-purity Refining Technology" is selected as the first prize of excellent achievement award of technological innovation in Shandong Province.









# Junyuan Petroleum Group

For more than 10 years, the Junyuan Petroleum Group has focused on being the leading manufacturer of pentanes, hexanes, benzenes and D solvents. From one office and a staff of ten to more than 500 of the industry's best and brightest, we have grown to be the largest specialty solvents provider serving for power generation, chemical feedstock applications, and domestic use.



**Junyuan Petroleum Group is the largest specialty solvent manufacturer in China and also the largest environmental friendly hydrocarbon refrigerant and pentane blowing agent manufacturer in China, and the first enterprise in China to obtain the qualification of vegetable oil extraction solvent for food additives.**

Junyuan Petroleum Group was founded in 2009 with a registered capital of 160 million US dollars (equivalent to 23.56 million US dollars). It is a comprehensive group relying on Dongying Junyuan Petroleum Technology Development Co., Ltd. and gradually developed and expanded.



Our seven series of products include propane series, pentane series, hexane series, solvent oil series, aromatics series, D series solvent oil and hydrogenated naphtha series.



Products include propane, isobutane, n-butane, high clean liquefied gas, Isopentane, n-Pentane, cyclopentane, pentane blowing agent;



Isohexane, 99%  
n-Hexane, 99%  
n-Hexane, 95%  
n-Hexane, 90%  
n-Hexane, 80%  
n-Hexane, 60%  
n-Heptane, 99%  
n-Octane, 99%  
D Solvent 20  
n-Pentane, 99%  
Isopentane, 99%  
Pentane Blends

# n-Pentane

DOT: Pentane, 3, UN1265, PG II  
n-Pentane Properties

This alkane is an organic compound with the formula  $C_5H_{12}$ . In a literal sense, pentane may refer to any of three structural isomers or a mixture of n-pentane, isopentane (methylbutane) and neopentane (dimethylpropane). It is a colorless, flammable, water-insoluble and volatile liquid that smells like gasoline. It is obtained from petroleum through distillation processes.



**Juyuan Petroleum Group is a leading supplier of normal Pentane (n-Pentane) - part of our pentane range of aliphatic hydrocarbon solvents, which comprises pure normal- and iso-pentane and blends of the two components.**

The boiling points of pentane isomers range from about 9 to 36 °C. It has a molecular weight of 72.151 g/mol. It has a melting point of -201.6°F (-129.8°C). Pentane has a density of 626 kg/m<sup>3</sup>.

CAS Number: 109-66-0  
Molecular Formula:  $C_5H_{12}$   
Formula Weight: 72.15  
Environmental Grade  
Reagent Grade



n-Pentane is a specialty solvent for pharmaceutical, industrial, medical and laboratory use



n-Pentane is a supercritical solvent for fractionation.



n-Pentane is a good solvent for the deactivation of tar and residue.



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**YouTube:** <https://www.youtube.com/watch?v=41dIp1M5T14>



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## Our GLOBAL PARTNERS

