



## 0.3-0.5 Cm<sup>3</sup>/G Pore Volume Solid Hydrogenation Process Catalyst C8/C9 Dark Gray To Black

Our Product Introduction

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### Basic Information

- Place of Origin: CHINA
- Brand Name: C8/C9 Hydrogenation Catalyst
- Model Number: KMH-08



### Product Specification

- Appearance: Dark Gray To Black Solid
- Application: Selective Hydrogenation Of C8/C9 Hydrocarbons
- Pore Volume: 0.3-0.5 Cm<sup>3</sup>/g
- Promoter: Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>)
- Active Component: Palladium (Pd)
- Particle Size: 1-3 Mm
- Surface Area: 100-200 M<sup>2</sup>/g
- Highlight: **hydrogenation process catalyst c8, c8 hydrogenation catalyst, c9 hydrogenation catalyst**

## Product Description

### Product Description:

The C8/C9 Hydrogenation Catalyst features a high pore volume of 0.3-0.5 cm<sup>3</sup>/g, which provides ample space for the reactants to diffuse and interact with the active sites of the catalyst. This attribute is particularly important for the selective hydrogenation of C8/C9 hydrocarbons, such as phenylacetylene, as it allows for efficient conversion of the target compounds while minimizing unwanted byproducts.

The C8/C9 Hydrogenation Catalyst is an ideal choice for industrial applications that require high selectivity and efficiency in the conversion of C8/C9 hydrocarbons. Its unique combination of active component and promoter enables it to perform exceptionally well in the selective hydrogenation of phenylacetylene, a key component in the production of various chemicals and polymers.

In summary, the C8/C9 Hydrogenation Catalyst is a highly effective and reliable Hydrogenation Catalyst that is specifically designed for the selective hydrogenation of C8/C9 hydrocarbons. Its active component, Palladium (Pd), and promoter, Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>), work together to provide high catalytic activity and selectivity towards C8/C9 hydrocarbons, particularly phenylacetylene. With its high pore volume and exceptional performance, this catalyst is an ideal choice for industrial applications that require efficient and selective hydrogenation of C8/C9 hydrocarbons.

### Technical Parameters:

Appearance	Dark Gray To Black Solid
Surface Area	100-200 M <sup>2</sup> /g
Application	Selective Hydrogenation Of C8/C9 Hydrocarbons
Particle Size	1-3 Mm
Pore Volume	0.3-0.5 Cm <sup>3</sup> /g
Promoter	Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )
Active Component	Palladium (Pd)

### Applications:

One of the main applications of this hydrogenation catalyst is in the production of styrene, a key ingredient in the manufacture of polystyrene. The C8/C9 Hydrogenation Catalyst is used to hydrogenate phenylacetylene, a precursor to styrene, to produce ethylbenzene, which is then dehydrogenated to form styrene. The Pd in the catalyst helps to reduce the amount of unwanted by-products and increase the selectivity of the reaction, resulting in a higher yield of styrene.

Another application of the C8/C9 Hydrogenation Catalyst is in the production of cyclohexane, which is used in the manufacture of nylon. The catalyst is used to hydrogenate benzene to produce cyclohexene, which is then hydrogenated again to form cyclohexane. The Pd in the catalyst helps to increase the rate of the reaction and improve the selectivity, resulting in a higher yield of cyclohexane. The C8/C9 Hydrogenation Catalyst can also be used in the hydrogenation of other unsaturated compounds, such as alkenes and alkynes, to produce the corresponding saturated compounds. In addition, the catalyst can be used in the selective hydrogenation of dienes and trienes to produce mono- or poly-unsaturated compounds.

In summary, the C8/C9 Hydrogenation Catalyst is a versatile product that can be used in a variety of applications, including the production of styrene and cyclohexane, as well as the hydrogenation of other unsaturated compounds. Its active component, Pd, helps to increase the selectivity and yield of the reaction, while its promoter, Al<sub>2</sub>O<sub>3</sub>, helps to improve the stability and durability of the catalyst. Whether you are in the chemical, pharmaceutical, or petrochemical industry, the C8/C9 Hydrogenation Catalyst is a reliable choice for your hydrogenation needs.

### Customization:

Product Customization Services for the C8/C9 Hydrogenation Catalyst:

Brand Name: C8/C9 Hydrogenation Catalyst

Model Number: KMH-08

Place of Origin: CHINA

Promoter: Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>)

Active Component: Palladium (Pd)

Surface Area: 100-200 M<sup>2</sup>/g

Particle Size: 1-3 mm

Application: Selective Hydrogenation Of C8/C9 Hydrocarbons

We also offer customization services for the Hydrogenation Catalyst, using Ni as the active component.

### Support and Services:

The C8/C9 Hydrogenation Catalyst is a high performance catalyst designed for the selective hydrogenation of diolefins in C8/C9 aromatic streams. It provides excellent selectivity, stability, and performance under a wide range of operating conditions.

Our technical support team is available to provide assistance with catalyst selection, reactor design, and process optimization. We also offer catalyst testing services to evaluate catalyst performance under specific process conditions.

In addition to technical support, we offer a range of services to help our customers maximize the value of their investment in our C8/C9

Hydrogenation Catalyst. These services include catalyst screening, catalyst regeneration, and spent catalyst disposal.

## Packing and Shipping:

### Product Packaging:

The C8/C9 Hydrogenation Catalyst will be packaged in a sealed, air-tight container to prevent contamination.

The container will be labeled with the product name, batch number, manufacturing date, and expiration date.

### Shipping:

The C8/C9 Hydrogenation Catalyst will be shipped in a sturdy cardboard box.

The box will be labeled with the product name, batch number, manufacturing date, and expiration date.

The box will be filled with packaging material to prevent movement and cushion the catalyst during shipping.

The box will be sealed with durable packing tape.



**Qingdao Junyao Catalyst New Material Technology Co., Ltd.**



+8618254266810



jycat@qdjunyao.com.cn



jyalumcatalyst.com