TECHNICAL DATA SHEET

Mesoporous Silica Molecular Sieve KIT-5

Mesoporous silica powder · average pore diameter 4.8 nm · BET ~600 m²/g · particle size 2–5 μm · calcined · 20 g



ACS Material Mesoporous Silica Molecular Sieve KIT-5 — Representative Packaging

ACS Material Mesoporous Silica Molecular Sieve KIT-5, 20 g. Image shown for reference.

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Revision Date **10/29/2026**

SECTION I

Product Overview

ACS Material Mesoporous Silica Molecular Sieve KIT-5 is a hydrothermally synthesized mesoporous silica powder with an average pore diameter of 4.8 nm, a BET surface area of ~600 m^2/g, and a particle size of 2–5 µm. It is calcined and ready to use directly. Typical SEM, TEM, XRD and BET data are included.

SECTION II

Core Advantages

- **Mesoporous** — average pore diameter 4.8 nm.
- **High surface area** — BET ~600 m^2/g.
- **Low sodium** — Na_2O ≤0.1%.
- **Ready to use** — calcined powder.

SECTION III

Specifications

Technical data

Specifications	
Product name	Mesoporous Silica Molecular Sieve KIT-5
Brand	ACS Material
CAS No.	7631-86-9
Preparation method	Hydrothermal Method
Supplied	Calcined, ready to use directly

Characterizations by type

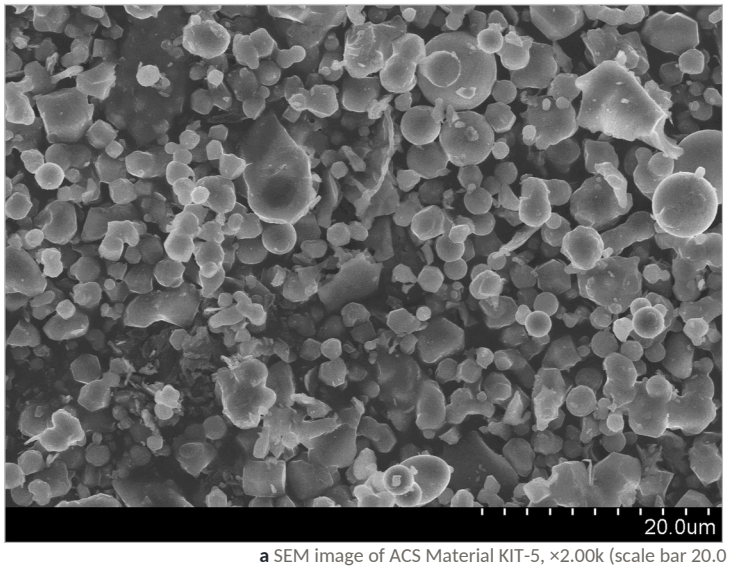
Characterizations	KIT-5
Appearance	Powder
Particle size (µm)	2–5
Average pore diameter (nm)	4.8
BET surface area (m^2/g)	~600
Na_2O (%)	≤0.1
Comparative crystallinity (%)	≥90

Ordering information

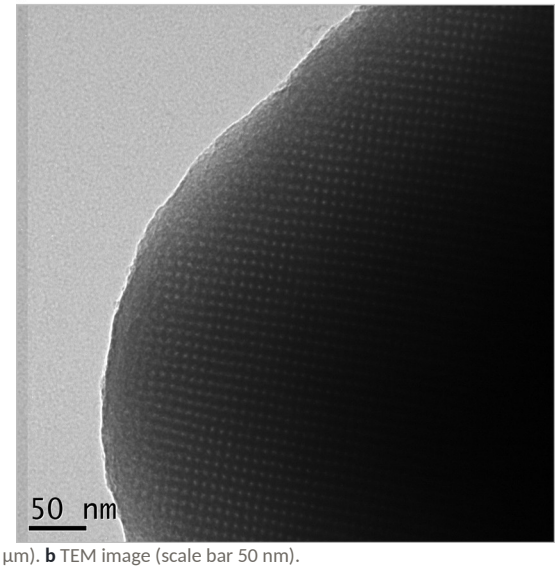
Product	Package	Product No.
KIT-5	20 g	MSKI5012

Typical data

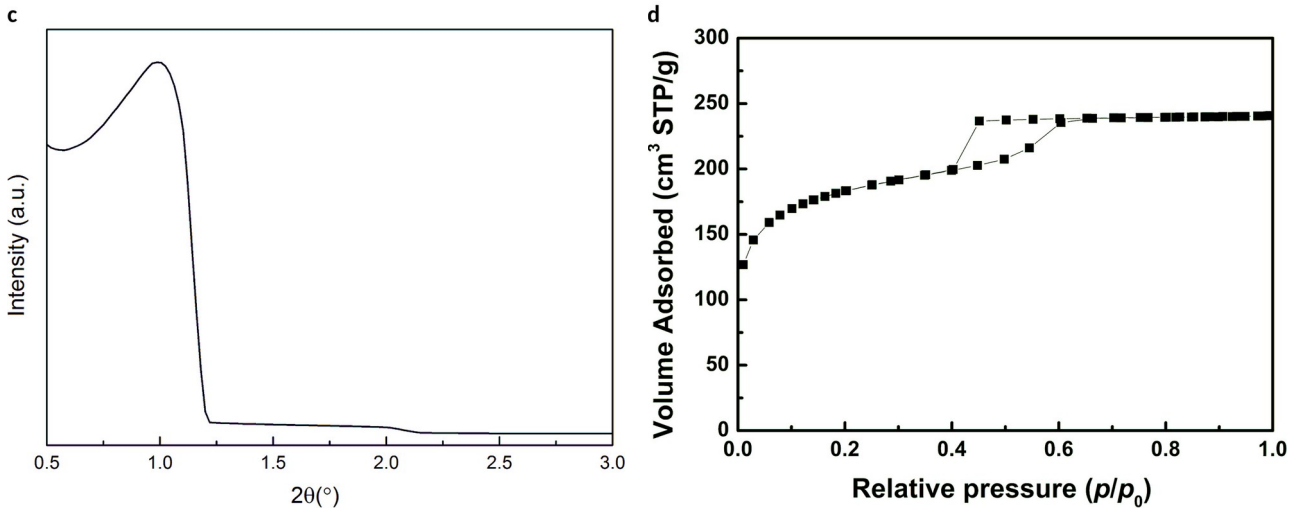
a



b



a SEM image of ACS Material KIT-5, ×2.00k (scale bar 20.0 µm). **b** TEM image (scale bar 50 nm).



c XRD pattern of ACS Material KIT-5. **d** Adsorption–desorption isotherm.

SECTION IV

Applications

1) Catalyst carrier.

2) Templating agent.

3) Separation of biochemicals.

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