Silica Particles-SO3H
PRODUCT DATA SHEET

Silica Particles-SO3H

Description

Silica Particles-SO3H is a functional nanomaterial prepared by introducing sulfonic acid groups on the surface of silica particles. Surface modification with sulfonic acid groups significantly improves the hydrophilicity and surface activity of silica particles, enhancing their dispersibility and stability in aqueous solutions. Sulfonic acid groups have excellent acidity and cation exchange properties, which can interact more effectively with organic molecules or metal ions. Silica Particles-SO3H is widely used in water treatment, environmental remediation, and adsorbent fields, and can efficiently remove harmful substances from water. This material also exhibits excellent performance in catalytic reactions, especially in acid catalyzed reactions. It can significantly accelerate the reaction rate and improve the selectivity and activity of catalytic reactions. At the same time, Silica Particles-SO3H also has important applications in the biomedical field, which can enhance the solubility and stability of drugs, and improve the affinity of drugs to cells, thereby enhancing therapeutic efficacy. By introducing surface sulfonic acid groups, silica particles exhibit various excellent functions, meeting the demand for high-performance materials in different fields.

Abvigen Inc can provide various particle sizes of Silica Particles SO3H. The product has uniform particle size, good surface activity, and high catalytic activity. Can meet different personalized material needs for customer research and development, testing, and production consumption.

For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: www.abvigen.com Phone: +1 929-202-3014 Email: info@abvigenus.com

Characteristics

Concentration: 25 mg/ml

Size: 10 ml

Surface: -SO3H

Shape: Spherical

Composition: Silica Particles

Buffer: DI Water

1378 US-206 Ste 6-126, Skillman, NJ USA
Email: info@abvigenus.com
Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Store: Storage at 2 - 8 °C

Storage

This product should be stored at 4°C. **DO NOT FREEZE**.

For 25 mg/ml of Silica Particles-SO3H

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
1 um	25	9.55E+08	2.39E+10	20 um	25	1.19E+05	2.98E+06
2 um	25	1.19E+08	2.98E+09	30 um	25	3.54E+04	8.84E+05
3 um	25	3.54E+07	8.84E+08	40 um	25	1.49E+04	3.73E+05
4 um	25	1.49E+07	3.73E+08	50 um	25	7.64E+03	1.91E+05
5 um	25	7.64E+06	1.91E+08	60 um	25	4.42E+03	1.11E+05
6 um	25	4.42E+06	1.11E+08	70 um	25	2.78E+03	6.96E+04
7 um	25	2.78E+06	6.96E+07	80 um	25	1.87E+03	4.66E+04
8 um	25	1.87E+06	4.66E+07	90 um	25	1.31E+03	3.27E+04
9 um	25	1.31E+06	3.27E+07	100 um	25	9.55E+02	2.39E+04
10 um	25	9.55E+05	2.39E+07	200 um	25	1.19E+02	2.98E+03
15 um	25	2.83E+05	7.07E+06				

1378 US-206 Ste 6-126, Skillman, NJ USA
Email: info@abvigenus.com
Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Advantage

Good chemical stability

Good cation exchange capacity

Uniform particle size

Good biocompatibility

High specific surface area

Good hydrophilicity

Excellent catalytic activity

Applications

Drug delivery

Ion exchange

Acid catalyzed reaction

Adsorption of heavy metal ions

Environmental monitoring

Ordering Information

Website: www.abvigen.com

Phone: +1 929-202-3014

Email: info@abvigenus.com

1378 US-206 Ste 6-126, Skillman, NJ USA
Email: info@abvigenus.com
Tel: 1-816-388- 0112 Fax: 1- 888-616-0161