

2731 Bartram Road Bristol, PA 19007-6893 800.385.3153 www.unitedchem.com

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CSDAU

CHEMICAL: C8 + Benzyl Sulfonic Acid

SILICA TYPE: Irregular particles 40-63 micron, 60 Angstrom pores LOT NUMBER:

020130-WH

		Specification Values		Lot Analysis
<u>Test</u>	Method	<u>Min</u>	<u>Max</u>	
Appearance	Visual	White Fine Powder		White Fine Powder
Average Pore Size	SOP82-4.042	55Å	65Å	60Å
Surface Area (m ² /g)	SOP82-4.042	470	530	$492 \text{ m}^2/\text{g}$
Pore Volume (cm ³ /g)	SOP82-4.042	0.70	0.85	$0.73 \text{ cm}^3/\text{g}$
Carbon Analysis by Weight	SOP82-4.024	12.00%	12.80%	12.40%
(Organic Loading)				
Cation Exchange	SOP82-4.025	0.065 meq/g	0.088meq/g	0.075meq/g
%Recovery - Amobarbital	SOP82-4.011	85.00%	110.0%	94.96%
%Recovery - Glutethimide	SOP82-4.011	85.00%	110.0%	100.7%
%Recovery - Phencyclidine	SOP82-4.011	85.00%	110.0%	99.37%
%Recovery - Imipramine	SOP82-4.011	85.00%	110.0%	89.51%

The shelf life is only valid if the material is stored in the original unopened container. The specifications and lot analysis are only valid using the listed methods. The test methods and specifications were current when the product was lotted.

CERTIFIED BY:

NAME: D. Shawn Ream

TITLE: QC Manager

Certificate issue DATE: 03/16/2020

2731 Bartram Road / Bristol, PA 19007 USA / Phone 215-781-9255 / Fax 215-785-1226

Email: info@unitedchem.com Internet: HTTP://www.unitedchem.com