



**PRODUCT SPECIFICATION SHEET  
SULFURIC ACID**

ACS, USP/NF, FCC GRADE

Catalog Numbers: 290000ACS, 290USP/NF, 290000FCC

**Available in 55 gallon New Poly Drum**

Test	Mono graph	Specification	Typical Lot Analysis
Assay (H <sub>2</sub> SO <sub>4</sub> ) wt%	ACS, USP/NF FCC	95.0 - 98.0% 95.0 - 98.0% To Pass	95.70% Pass
Identification	USP/NF FCC	To Pass Tests	Pass
Appearance	ACS	Clear, Colorless liquid	Pass
Color, APHA	ACS	10 max.	10
Residue after Ignition	ACS USP/NF	5 ppm max 0.005%	< 5ppm
Chloride (Cl)	ACS USP/NF FCC	0.2 ppm max 0.005% max 0.005% max	< 0.2 ppm
Nitrate (NO <sub>3</sub> )	ACS FCC	0.5 ppm max 10 ppm	< 0.5 ppm
Ammonium (NH <sub>4</sub> )	ACS	2 ppm max	< 2 ppm
Substances Reducing Permanganate (as SO <sub>2</sub> )	ACS FCC	2 ppm max To Pass Test	Pass Pass
Reducing Substances	USP/NF	To Pass Test	Pass
Arsenic (As)	ACS USP/NF FCC	0.01 ppm max 1 ppm max 3 ppm	0.01 ppm
Heavy Metals (as Pb)	ACS USP/NF FCC	1 ppm max 5 ppm max 0.002% max	< 1 ppm
Iron (Fe)	ACS FCC	0.2 ppm 0.02%	< 0.2 ppm
Mercury (Hg)	ACS	5 ppb max	<5 ppb
Lead	FCC	5 ppm max	< 5 ppm
Selenium	FCC	0.002% max.	< 0.002%

Form:Sulfuric Acid,ACS-USPNF-FCC,#201,Rev.2.0,10/01

Approved by: Paul DiMarco, Vice President Quality Management

*This document has been electronically generated and is therefore not signed. A signed copy can be obtained from Pharmco's Quality Control office.*

FOR INDUSTRIAL OR LAB USE ONLY. Not intended as an active substance in Food or Drug. Not to be considered a Medical Device. Not intended for use as a Disinfectant as defined by the EPA. The expiration date of this product is three years from the date of manufacture. (Rev. # Disclaimer only: Rev 2.0 11/19/01 PJM)

Shipping Name:  
Sulfuric Acid  
Hazard Class: II UN 1830  
PG: II  
Sulfuric Acid CAS 7664-93-9

LOT NO:  
BATCH NO:

CATALOG NUMBERS:  
29000ACS  
2900USPNF  
29000FCC

**CORROSIVE**

CHEMTREC NO. 1-800-424-9300

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**DANGER: CORROSIVE CHEMICAL & VAPOR. Improper Exposure Can Result in Severe Injury or Death! Immediate damage to body upon contact. Wear all recommended protective equipment. Refer to MSDS for additional information.**

**STORAGE AND HANDLING:** Keep in a cool, dry place. Do not expose to direct sunlight. Use only with proper personal protective equipment and ventilation. Refer to MSDS for additional information.

**FIRST AID:** SEEK IMMEDIATE MEDICAL ATTENTION. REFER TO MSDS FOR APPROPRIATE FIRST AID FOR THIS CHEMICAL.

**REFER TO MSDS PRIOR TO USE.** Use Only Under Appropriate Conditions. Use Only Under Trained Supervision.

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PRODUCTS INC.  
58 Vale Road Brookfield, Connecticut 06804 USA  
Phone 203-740-3471 Fax 203-740-3471 GSP-CT-18

**SULFURIC ACID**  
**ACS, USP/NF, FCC Grade**  
55 gallons (725 lbs net)

Product Specifications	Limits	Typical Lot Analysis
Assay (H2SO4) w/1% (ACS)	98.0-98.0%	98.1%
Assay (H2SO4) w/1% (USPNF)	98.0-98.0%	Pass
Assay (H2SO4) w/1% (FCC)	To Pass	Pass
Identification (USPNF)	To Pass Tests	Pass
Identification (FCC)	To Pass Tests	Pass
Appearance (ACS)	Clear, Colorless liquid	Pass
Color, APHA (ACS)	10 max.	< 10
Residue after ignition (ACS)	5 ppm max	< 5 ppm
Residue after ignition (USPNF)	0.005%	< 5 ppm
Chloride (Cl) (ACS)	0.2 ppm max	< 0.2 ppm
Chloride (Cl) (USPNF)	0.005% max	< 0.2 ppm
Chloride (Cl) (FCC)	0.005% max	< 0.2 ppm
Nitrate (NO3) (ACS)	0.5 ppm max	< 0.5 ppm
Nitrate (NO3) (FCC)	10 ppm max	< 0.5 ppm
Ammonium (NH4) (ACS)	2 ppm max	< 2 ppm
Substances Reducing Permanganate (as SO2) (ACS)	2 ppm max	Pass
Substances Reducing Permanganate (as SO2) (FCC)	To Pass Test	Pass
Reducing Substances (USPNF)	To Pass Test	Pass
Arsenic (As) (ACS)	0.01 ppm max	0.01 ppm
Arsenic (As) (USPNF)	1 ppm max	0.01 ppm
Arsenic (As) (FCC)	5 ppm	0.01 ppm
Heavy Metals (as Pb) (ACS)	1 ppm max	< 1 ppm
Heavy Metals (as Pb) (USPNF)	5 ppm max	< 1 ppm
Heavy Metals (as Pb) (FCC)	0.002% max	< 1 ppm
Iron (Fe) (ACS)	0.2 ppm	< 0.2 ppm
Iron (Fe) (FCC)	0.02%	< 0.2 ppm
Mercury (Hg) (ACS)	0 ppm max	< 0.01 ppm
Lead (Pb) (FCC)	5 ppm max	< 5 ppm
Selenium (FCC)	0.002% max	< 0.002%

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