penta CHEMICALS UNLIMITED®

Specification

Sulfuric acid 96%

Chemical formula: H_2SO_4
Molar mass: 98,08 g/mol
CAS: 7664-93-9
EINECS: 231-639-5

chemically pure (20420)

Appearance	clear colourless liquid
Assay	min. 96,0 %
Total nitrogen (as N)	max. 0,0001 %
Chloride (Cl^-)	max. 0,0001 %
Fe (Iron)	max. 0,00005 %
Heavy metals (as Pb)	max. 0,0002 %
Substances reducing $KMnO_4$ (as SO_2)	max. 0,0005 %

A.G. (20450)

Appearance	clear colourless liquid
Assay	min. 96,0 %
Chloride (Cl^-)	max. 0,0001 %
Fe (Iron)	max. 0,0001 %
Heavy metals (as Pb)	max. 0,0005 %
Substances reducing $KMnO_4$ (as SO_2)	max. 0,0005 %

pure (20370)

Appearance	clear colourless liquid
Assay	min. 96,0 %
Chloride (Cl^-)	max. 0,0005 %
Fe (Iron)	max. 0,0005 %
Heavy metals (as Pb)	max. 0,0005 %

ACS (43430)

Appearance	clear colourless liquid
Assay	min. 96,0 %
Color scale (APHA)	max. 10
Residue on ignition	max. 5 ppm
Chloride (Cl^-)	max. 0,2 ppm
Nitrate (NO_3^-)	max. 0,5 ppm
Ammonium (NH_4^+)	max. 2 ppm
Substances reducing $KMnO_4$	max. 2 ppm
As (Arsenic)	max. 0,01 ppm
Heavy metals	max. 1 ppm
Fe (Iron)	max. 0,2 ppm
Hg (Mercury)	max. 5 ppb

Specification

technical (20500)

Appearance	colourless to brownish liquid
Assay	min. 95,0 %

semiconductor grade (20490)

Appearance	clear colourless liquid
Assay	min. 96.0 %
Color scale (APHA)	max. 10 APHA
Residue on ignition	max. 3 ppm
Chloride (Cl^-)	max. 0.1 ppm
Substances reducing $KMnO_4$ (as SO_2)	max. 2 ppm
As (Arsenic)	max. 0.005 ppm
Fe (Iron)	max. 0.01 ppm
Heavy metals	max. 0.05 ppm
Nitrogen (as NH_3)	max. 0.1 ppm

Classification of the substance in accordance with Regulation (EC) No 1272/2008

Hazard statements: 314, 318
EUH statements:
Precautionary statements: 280, 305+351+338, 310, 301+330+331
Signal word: Danger

ADR/RID: 8 /C1 /II
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