

**Sulfuric Acid 50%, Semig**

H<sub>2</sub>SO<sub>4</sub>                      FW. 98.08  
CAS-No.                      7664-93-9  
Code                            **SM1184**

Density 1 L = 1.40 Kg.  
Melting Point - 36.5 °C  
Boiling Point    123.3 °C

**Specifications**

Assay (by acidimetry)	49.0 – 51.0%
Color (APHA)	10      max.
Residue after Ignition	5      ppm max.
Substances reducing permanganate (as SO <sub>2</sub> )	2      ppm max.
Ammonium (NH <sub>4</sub> )	0.5    ppm max.
Chloride (Cl)	0.1    ppm max.
Nitrate (NO <sub>3</sub> )	0.5    ppm max.
Phosphate (PO <sub>4</sub> )	0.5    ppm max.
Aluminium (Al)	0.2    ppm max.
Arsenic and Antimony (as As)	0.005 ppm max.
Boron (B)	0.02   ppm max.
Calcium (Ca)	0.3    ppm max.
Chromium (Cr)	0.2    ppm max.
Copper (Cu)	0.1    ppm max.
Gold (Au)	0.3    ppm max.
Iron (Fe)	0.2    ppm max.
Lead (Pb)	0.3    ppm max.
Magnesium (Mg)	0.3    ppm max.
Manganese (Mn)	0.2    ppm max.
Nickel (Ni)	0.1    ppm max.
Potassium (K)	0.3    ppm max.
Sodium (Na)	0.3    ppm max.
Tin (Sn)	0.2    ppm max.
Titanium (Ti)	0.3    ppm max.
Zinc (Zn)	0.2    ppm max.