



# Product Specification

## Product Name: SULFURIC ACID 90-91% w/w

Alternate Name(s) SULFURIC ACID with more than 51% acid

### Description

Colourless, oily liquid. Free from suspended or insoluble matter.

### Properties

Chemical Formula:  $H_2SO_4 + aqua$

Molecular Weight: 98.08

Product Code: SL419

CAS No. 7664-93-9

### General Information:

Density up to 1.840 kg/L. In the presence of moisture highly corrosive to most metals. Only concentrations up to 75% acid (density 1.67 kg/L) may be carried in a rubber lined drum. Reacts violently with water.

### Hazard and Safety Data

UN Group: II  
Class: 8  
UN Number: 1830  
Hazchem code: 2P  
CS MSDS Code: 1CH72  
Poison schedule: S6  
Emergency  
Procedure Guide No.: 40

### Quality Specification

Assay: 90-91% w/w

### Specific Properties and Impurities [Typical levels]:

|                            |                       |
|----------------------------|-----------------------|
| Melting point              | -29.5 °C              |
| Boiling point              | 276 °C                |
| Vapour Pressure (20 °C)    | < 0.0013 hPa          |
| Vapour Density             | 3.4                   |
| Odour Threshold            | > 1 mg/m <sup>3</sup> |
| Decomposition Temp.        | 340 °C                |
| Specific Gravity           | 1.815-1.821           |
| R.A.I.                     | ≤ 0.01 %              |
| Nitrate (NO <sub>3</sub> ) | ≤ 0.005 %             |
| Iron                       | ≤ 0.02 %              |
| Arsenic                    | ≤ 0.00001 %           |
| Heavy metals (as Pb)       | ≤ 0.0005 %            |

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