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Product Specifications

Catalogue Number 32521

Product **Strychnine sulfate pentahydrate**

CAS Number 60491-10-3

Molecular Formula $C_{42}H_{44}N_4O_4 \cdot H_2SO_4 \cdot 5H_2O$

Molecular Weight 856.99

Appearance White crystalline powder

Solubility 1gm Strychnine sulfate dissolve in 35ml of water, in 85ml of alcohol & 220ml of chloroform
1gm Strychnine sulfate dissolve in 7ml of boiling water, 25ml of alcohol at 70 °C
Freely soluble in glycerine but insoluble in ether

Odor Odorless

Acidity $\leq 0.5\%$

Loss on Drying $\leq 11.5\%$ at 105 °C

Readily Carbonizable Substance Dissolve 200mg of substances in 5ml of Sulfuric Acid. Solution has no more color then matching fluid (A)

Residue On Ignition $\leq 0.1\%$

Assay by titration $\geq 99\%$

Storage Store at RT

Additional Information Taste : Extremely bitter
Brucine : Free
Identification :
A) To 2ml solution of Strychnine Sulfate in Sulfuric Acid (1 in 20) and fragment of $K_2Cr_2O_7$ and agitate gently till a Blue color develops. It changes to Violet then Red to Yellow or Orange.
B) To about 10mg of the substance and few drop of solution of Ammonium Vanadate in Sulfuric Acid (1 in 100) a deep Violet Blue color is produce, which changes to Purple and finally to Cherry Red.
C) A solution of Strychnine Sulfate (1 in 50) response to the test for Sulfate.

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For Laboratory Use Only