



Product Specification

Product Name: SODIUM METASILICATE Pentahydrate TG

Alternate Name(s) Sodium silicate, Disodium monosilicate.

Description

Opaque white crystalline solid; odourless.

Properties

Chemical Formula: $\text{Na}_2\text{SiO}_3 \cdot 5\text{H}_2\text{O}$

Molecular Weight: 212.14

Product Code: ST014

CAS No. 10213-79-3

General Information:

Soluble in water, precipitated by acids and by alkaline earths and heavy-metal ions.
Insoluble in alcohol.

Hazard and Safety Data

UN Group: III
Class: 8
UN Number: 3253
Hazchem code: 2X
CS MSDS Code: 1CHHI
Poison schedule: S5
Emergency
Procedure Guide No.: 37

Quality Specification

Assay:

Specific Properties and Impurities [Typical levels]:

Melting point	72.2°C
Sodium (Na ₂ O)	28.0 - 30.5%
Silica (SiO ₂)	27.0 - 29.0%
Iron (Fe)	≤ 0.02%
Loss on ignition	43.0 +/- 1.0% min.
Particle size (14 - 60 mesh)	>95.0%
pH	11.5 - 13.5

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