



# Product Specification

## Product Name: SODIUM SILICATE Solution TG

Alternate Name(s) Water glass; silicate of soda.

### Description

Colourless or pale green viscous liquid.

### Properties

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

Molecular Weight: 122.1

Product Code: ST015

CAS No. 1344-09-8

### General Information:

Miscible with water. Incompatible with fluorine, mineral & organic acids, organic materials. May produce hydrogen gas on prolonged contact with metals. Gels when mixed with acids. Non combustible.

### Hazard and Safety Data

UN Group: None Allocated

Class: None Allocated

UN Number: None Allocated

Hazchem code: None Allocated

CS MSDS Code: 1CH7U

Poison schedule: S5

Emergency

Procedure Guide No.:

### Quality Specification

Assay: Weight Ratio ( $\text{SiO}_2$  :  $\text{Na}_2\text{O}$ ) 3.16 - 3.26

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

Sodium Oxide (as $\text{Na}_2\text{O}$ ) %wt	8.7% - 9.1%
Silica (as $\text{SiO}_2$ ) %wt	28.4% - 28.9%
Total Solids Content	37.1% - 38.0%
Viscosity (Brookfield) (at 20 °C)	180 (Typical)
Density $\text{g/cm}^3$ (at 20 °C)	1.37 - 1.40

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