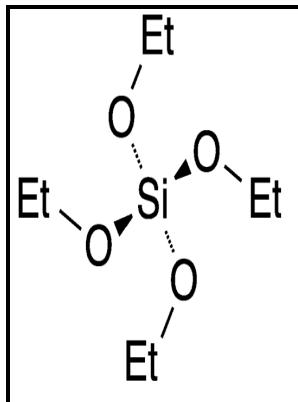


# Orthosilicates

Mineralogical Society of America - Silicates



Description: -

-  
United States. -- Dept. of Labor. -- Office of the Inspector General -  
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Tags: #Silicate #Structure

## Silicate Structure

In this the silicon is 4 - coordinated to oxygen atoms tetrahedrally. The Nickel—Strunz classifications are 09. Asbestoses have been identified as carcinogens, and its application has since been limited due to a ban to limit its exposure to the public.

## Orthosilicate

The fourth oxygen is coordinated to a metal cation.

## Graduate Chemistry Society

Serpentine, Mg 3 OH 4Si 2O 5, has curved sheets. Each unit shares two oxygen atoms with other units.

## Polysilicates

But if molten silica is cooled more rapidly, the resulting solid is a disorderly arrangement which is called glass, often also called quartz. TEOS has multiple specialty uses, including stone hardening which arrests the decay of structures and art objects , mortar and cement manufacture, and cross-linking silicone polymers.

## Silicate mineral

This condition leaves the oxygens with the option of bonding to another silicon ion and therefore linking one SiO 4 4- tetrahedron to another. It is occasionally called the silicon tetroxide anion or. In these structures each silicon has two bridging and two terminal oxygen atoms, and the charge density is -2 per silicon atom.

## Polysilicates

The diagram came from a polysome series which discusses sheet silicates. Al for Si substitution is common. Barium orthosilicate is a major cause of in.



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