



# Minerals

## Quartz (variety Rose)

$\text{SiO}_2$

### Crystallography:

Hexagonal -R; 32 (low quartz). Hexagonal; 622 (high quartz). Crystals not common. Usually massive, coarsely crystalline.

### Physical Properties:

**Cleavage:** Generally none; occasional indistinct rhombohedral parting. Fracture conchoidal; brittle.

**Hardness:** 7.0.

**Specific Gravity:** 2.65.

**Luster:** Vitreous to slightly greasy.

**Color:** Rose-red or pink, often paler on exposure. Translucent to transparent.

**Streak:** White.

### Composition/Features:

Most nearly a pure chemical compound of silicon and oxygen with constant physical properties. Characterized by its rose red color, glassy luster, conchoidal fracture, and hardness. Infusible. Insoluble except in hydrochloric acid.

### Occurrence/Use:

Crystals rare, usually coarsely crystalline with some notable massive deposits. Coloring believed due to small amounts of titanium. Used as an ornamental material and gemstone.