## Leucite

Benjamin Bass 24 February2016



General Mineral Formula:  $KAlSi_2O_6$ 

Mineral Chemical Class: Techtosilicates: Feldspathoid Group

Specific Gravity: 2.45-2.50

Hardness: 5.5-6.0

Cleavage: Poor. Conchoidal fracture. Brittle

Luster: Vitreus
Streak: White.

Characteristic Color(s): White or Grey

Crystal System: Tetragonal

Crystal Class: 4/m

Crystal Description (common forms, habit, etc.): Open framework of four and six-member rings of Si/Al. Commonly show eight-sided to nearly round cross sections.

Environment (where you find the material: In young, low-silica igneous basalt formed from direct lava cooling.

Common Mineral Associations (in samples, also consult text, notes: Olivine, Nepheline, Agite, Biotite

 ${\bf Scientific\ Usage/Significance}.\ {\bf None}$ 

**Industrial or Social Use/Significance**: Used in the manufacture of ceramics and in dental prostheses.

 ${\bf Environmental \ Significance: \ Fertilizer \ for \ its \ potassium \ content.}$