Distinguish, differentiate, compare and explain what is the Difference between Schottky and Frenkel defect. Comparison and Differences.

Difference between Schottky and Frenkel defect

1. The Schottky defect is due to an equal number of cations and anions missing from lattice sites. Frenkel defect is due to missing of ions (usual cations) from the lattice sites and these occupy interstitial sites.
2. Schottky defect results in a decrease in the density of crystal. Frenkel defect has no defect in the density of crystal.
3. The Schottky defect is found in highly ionic compounds with having cations and anions of same sizes. Example: NaCl, CaCl. Frenkel defect is found a crystal with low coordination number. Example: Agl, Zns.