**Polarization in ionic compounds:** The ability of a cation to distort the electron cloud of an anion in an ionic compound.

**Fajans Rules**

1. Small size and/or high charge of the cation.
2. Large size and/or high charge of the anion.

EX1. Select from the following, the compound that having the highest melting point, and briefly indicate your choice: BeCl2, MgCl2, CaCl2, BaCl2.

EX2. Select from the following, the compound that having the highest melting point, and briefly indicate your choice: NaCl, MgCl2, AlCl3.

EX3. Select from the following, the compound that having the highest melting point, and briefly indicate your choice: LiF, LiCl, LiBr, LiI.