







## **Different shapes of crystals**

- Depending on internal structure compounds is classified as
  - 1. Crystalline
  - 2. Amorphous
- Crystalline compounds are characterized by repetitious spacing of constituent atom or molecule in three dimensional array.
- In amorphous form atom or molecule are randomly placed.
- Solubility & dissolution rate are greater for amorphous form than crystalline, as amorphous form has higher thermodynamic energy.

Eg. Amorphous form of **Novobiocin** is well absorbed whereas crystalline form results in poor absorption.















