

Give the crystal system:

1. *Cuprite* Cu_2O : $a = 4.2696\text{\AA}$; $b = 4.2696\text{\AA}$; $c = 4.2696\text{\AA}$; $\alpha = 90.0^\circ$; $\beta = 90.0^\circ$; $\gamma = 90.0^\circ$;

2. *Zincte* ZnO : $a = 3.2427\text{\AA}$; $b = 3.2427\text{\AA}$; $c = 5.1948\text{\AA}$; $\alpha = 90.0^\circ$; $\beta = 90.0^\circ$; $\gamma = 120.0^\circ$;

3. *Tenorite* CuO : $a = 4.6837\text{\AA}$; $b = 3.4226\text{\AA}$; $c = 5.1288\text{\AA}$; $\alpha = 90.0^\circ$; $\beta = 99.54^\circ$; $\gamma = 90.0^\circ$;

4. *Corundum* Al_2O_3 : $a = 4.7589\text{\AA}$; $b = 4.7589\text{\AA}$; $c = 12.9912\text{\AA}$; $\alpha = 90.0^\circ$; $\beta = 90.0^\circ$; $\gamma = 120.0^\circ$;

5. *Rutile* TiO_2 : $a = 4.5845\text{\AA}$; $b = 4.5845\text{\AA}$; $c = 2.9533\text{\AA}$; $\alpha = 90.0^\circ$; $\beta = 90.0^\circ$; $\gamma = 90.0^\circ$;

6. *Brookite* TiO_2 : $a = 9.1845\text{\AA}$; $b = 5.4471\text{\AA}$; $c = 5.1453\text{\AA}$; $\alpha = 90.0^\circ$; $\beta = 90.0^\circ$; $\gamma = 90.0^\circ$;

7. *Anorthite* $CaAl_2Si_2O_8$: $a = 8.1732\text{\AA}$; $b = 12.869\text{\AA}$; $c = 14.165\text{\AA}$; $\alpha = 93.112^\circ$; $\beta = 115.913^\circ$; $\gamma = 90.261^\circ$;

8. *Scapolite* $Na_4Al_3Si_9O_{24}Cl$: $a = 12.059\text{\AA}$; $b = 12.059\text{\AA}$; $c = 7.587\text{\AA}$; $\alpha = 90.0^\circ$; $\beta = 90.0^\circ$; $\gamma = 90.0^\circ$;

9. *Beryl* $Be_3Al_2Si_6O_{18}$: $a = 9.2086\text{\AA}$; $b = 9.2086\text{\AA}$; $c = 9.1900\text{\AA}$; $\alpha = 90.0^\circ$; $\beta = 90.0^\circ$; $\gamma = 120.0^\circ$;

10. *Celsian* $BaAl_2Si_2O_8$: $a = 8.628\text{\AA}$; $b = 13.045\text{\AA}$; $c = 14.408\text{\AA}$; $\alpha = 90.0^\circ$; $\beta = 115.20^\circ$; $\gamma = 90.0^\circ$;
