

Hydrates (p. 95)

- Compounds that possess molecules of water as part of their structural formula
- When heat is applied, the compound will decomposed to produce water vapour and the “anhydrous” ionic compound
- The water is called the “water of hydration”

$\text{Na}_2\text{SO}_4 \bullet 10 \text{H}_2\text{O}$ = sodium sulfate **deca**hydrate

Na_2SO_4 = anhydrous **sodium sulfate**

$\text{CoCl}_2 \bullet 6 \text{H}_2\text{O}$ = cobalt (II) chloride **hexa**hydrate

CoCl_2 = anhydrous **cobalt (II) chloride**