

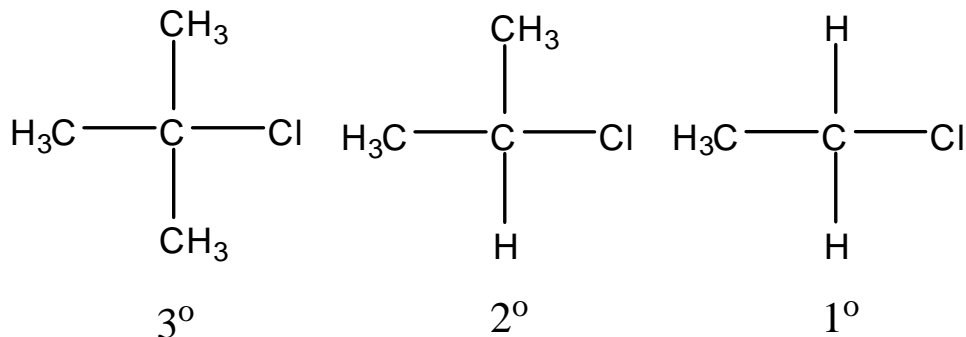
Chemistry 3.5

Advanced Organic Chemistry

Haloalkanes and amines

Degree of Haloalkane

- The classification of haloalkane is the same as alcohol
- 3° haloalkane- halogen is bonded to a carbon bonded to three other carbons
- 2° haloalkane- halogen is bonded to a carbon bonded to two other carbons
- 1° haloalkane- halogen is bonded to a carbon bonded to one other carbon



Substitution of haloalkanes

- Last year....

- All haloalkanes react with $\text{OH}^-_{(\text{aq})}$ (or $\text{KOH}_{(\text{aq})}$) to form alcohol



- Haloalkanes react with $\text{NH}_{3(\text{alc})}$ to form amines



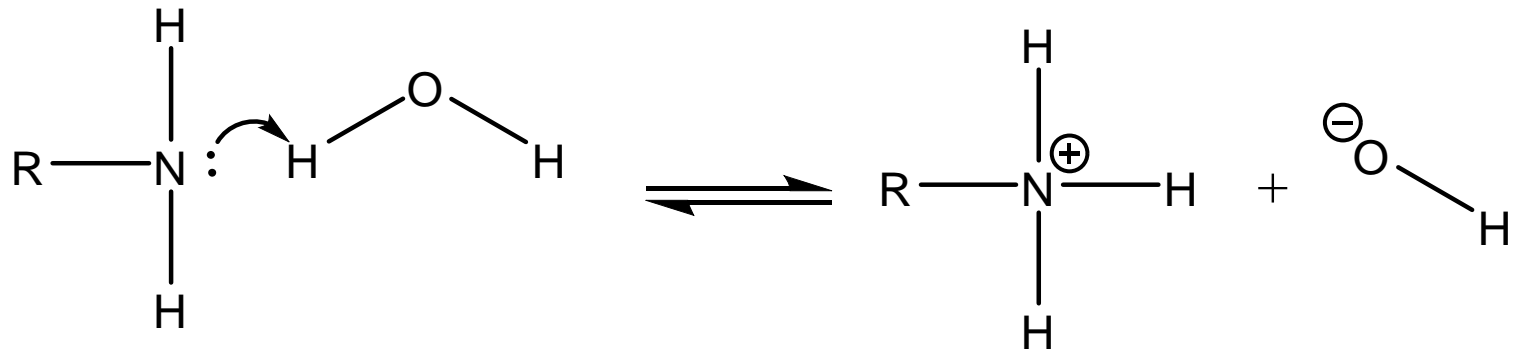
- This year Level 3

- Tertiary haloalkanes react with water to form alcohol



Amine

- Amine is a base
- It reacts with water forming a basic solution



- It reacts with an acid forming a salt

