9 F Fluorine

Group 7 - The Halogens

GROUP 7 IS THE ONLY GROUP THAT CONTAINS ELEMENTS IN ALL THREE STATES OF MATTER. THEY ARE ALL REACTIVE NON-METALS

17 Cl Chlorine

35 Br Bromine

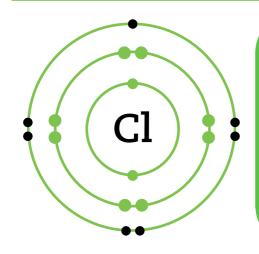
53 Iodine

85 At Astatine

117 Uus Ununseptium

IODINE & ASTATINE SOLIDS AT ROOM TEMPERATURE BROMINE **LIQUID** AT ROOM TEMPERATURE FLUORINE & CHLORINE GASES AT ROOM TEMPERATURE

THE HALOGENS ALL FORM DIATOMIC MOLECULES EXCEPT FOR ASTATINE



GROUP 7 ELEMENTS HAVE SEVEN VALENCE ELECTRONS

THE REACTIVITY OF THE HALOGENS DECREASES DOWN BECOMES HARDER

1 GRAN

ESTIMATED AMOUNT OF AT ANY ONE TIME

HALOGENS REACT WITH OXYGEN TO FORM HALOGEN OXIDES

THE HALOGENS REACT WITH METALS TO FORM METAL HALIDES

THEHALOGENS ARE USED **OXIDISING AGENTS** WHILST HALIDE LONS ARE USED REDUCING AGENTS

HYDROFLUORIC ACID

LEACHES CALCIUM FROM

BONES AND CAN CAUSE

VERY PAINFUL BURNS

IT ALSO

DISSOLVES GLASS

IONS

HALOGENS USES O F THE



FLUORINE

TOOTHPASTE

REFRIDGERANT GASES



CHLORINE

BLEACH

CHEMICAL WARFARE



BROMINE

FIRE RETARDANT MATERIAL S



IODINE

DISINFECTANTS