

8
O
Oxygen

16
S
Sulphur

34
Se
Selenium

52
Te
Tellurium

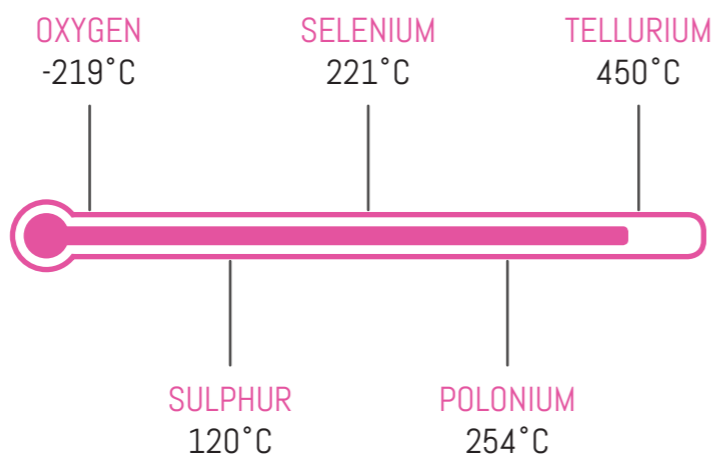
84
Po
Polonium

116
Lv
Livermorium

Group 6 - The Chalcogens

THE GROUP 6 ELEMENTS ARE A MIX OF ELECTRONEGATIVE NON-METALS & METALLOIDS COMMONLY ASSOCIATED WITH METAL BEARING MINERALS

MELTING POINTS



ALL OF THE SOLID CHALCOGENS ARE **SOFT** AND **DON'T CONDUCT HEAT WELL**

OXYGEN

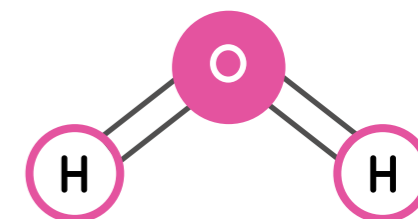
MAKES UP

65%

OF THE HUMAN BODY



ALL OF THE COMPOUNDS OF **HYDROGEN WITH CHALCOGENS** ARE **TOXIC**

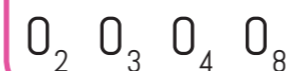


APART FROM WATER

ALLOTROPES

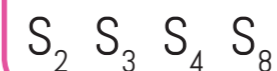
OXYGEN

NINE



SULPHUR

TWENTY



SELENIUM

FIVE

MAINLY Se_8

POLONIUM

TWO

α -Po & β -Po

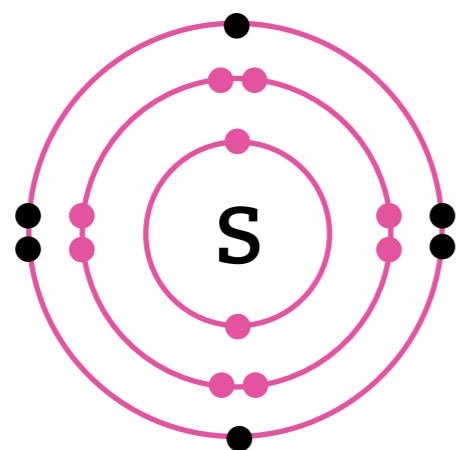


OXYGEN IS THE ONLY **GASEOUS CHALCOGEN**

SELENIUM, TELLURIUM & POLONIUM ARE ALL



METALLOIDS



ALL OF THE GROUP 6 ELEMENTS HAVE **SIX VALENCE ELECTRONS**

ALL THE GROUP 6 ELEMENTS **FORM - 2 IONS** WHEN REACTING WITH **ELECTROPOSITIVE METALS**

SULPHUR DIOXIDE REACTS WITH WATER VAPOUR TO FORM **SULPHURIC ACID** AND CAUSE **ACID RAIN**



USES OF THE CHALCOGENS



OXYGEN

MAKING STEEL
ROCKET FUEL



SULPHUR

GUNPOWDER
SULPHURIC ACID



SELENIUM

PHOTOCOPIERS
GLASS-MAKING



TELLURIUM

CD-RW DISCS
SOLAR PANELS



POLONIUM

ALPHA PARTICLE GENERATOR IN RESEARCH