

6
C
Carbon

14
Si
Silicon

32
Ge
Germanium

50
Sn
Tin

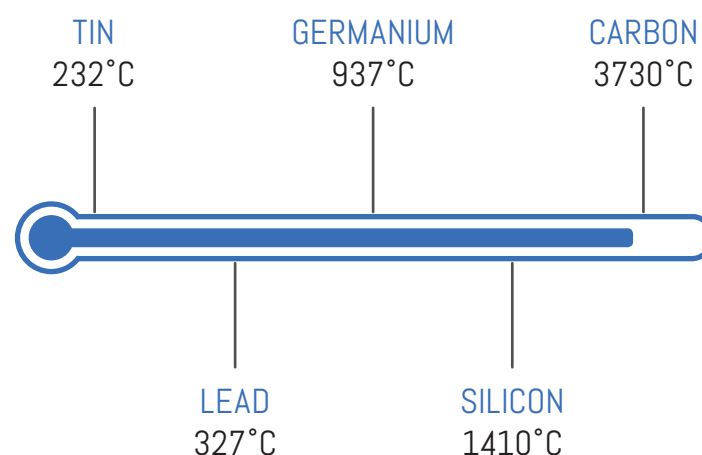
82
Pb
Lead

114
Fl
Flerovium

Group 14 - The Crystallogens

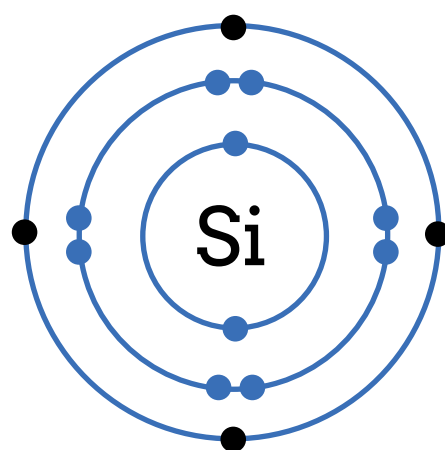
THE GROUP 14 ELEMENTS ARE A MIX OF METALS, METALLOIDS & NON-METALS, AND SHOW CONSIDERABLE DIVERSITY IN THEIR PROPERTIES

MELTING POINTS



SILICON
IS THE SECOND
MOST ABUNDANT
ELEMENT IN THE
EARTH'S CRUST
AT

25.7%



ALL
OF THE
GROUP 14 ELEMENTS
HAVE
FOUR
VALENCE ELECTRONS

EXPOSURE
TO LEAD
CAN CAUSE
LEAD POISONING

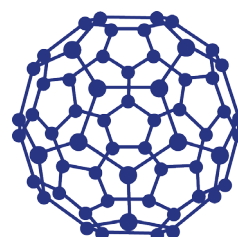


FLEROVIUM
IS ONE OF THE
MAN-MADE
ELEMENTS
DISCOVERED IN

1999

8

THE NUMBER OF
ALLOTROPES OF CARBON
INCLUDING DIAMOND, GRAPHITE
& BUCKMINSTER FULLERINE



¹¹²Sn ¹¹⁴Sn ¹¹⁵Sn ¹¹⁶Sn ¹¹⁷Sn

10

¹¹⁸Sn ¹¹⁹Sn ¹²⁰Sn ¹²²Sn ¹²⁴Sn

TIN IS THE ELEMENT WITH THE
LARGEST NUMBER OF STABLE ISOTOPES

THE GROUP 14
ELEMENTS FORM
HYDRIDES WITH
HYDROGEN



TETRAHALIDES
WITH HALOGENS



AND A VARIETY OF
OXIDES WITH OXYGEN

CARBON
MAKES UP
18.5%
OF THE
HUMAN BODY



IT ALSO FORMS
ORGANIC COMPOUNDS
THE STUDY OF WHICH
IS KNOWN AS
ORGANIC CHEMISTRY

USES OF THE CRYSTALLOGENS



CARBON
DIAMONDS
CARBON
DATING



SILICON
GLASS
ELECTRONICS



GERMANIUM
MICROSCOPE &
CAMERA LENSES



TIN
TIN CANS



LEAD
RADIATION
SHIELDING
LEADED PETROL