

.

1.

1

2

3

2.

1

2

3.

1

2

" " " "

.

()

()

" 1" " 2" " "

1

1

2

3

4

5

"

2

1

2

$$c = \frac{n}{N_A} \quad M \quad V_m$$

3

4

3
A A

5

H

6

K

7

pH

pH

K_{sp}

8

3

1

Na Mg Al Fe Cu

2

H C N O Si S Cl

3

4

1

2

3

4

5

6

7

8

9

5

1

2

3

4

5

6

7

" " " "

1

1

1~36

2

3

4

2

1

2

3

4

sp sp² sp³

5

3

1

2

4

1

2

3

4

5

6

1

1

2

3

4

5

6

2

1

2

3

4

3

1

2

4

1

2

3