

1.4.4.1: Practice Ions

Exercise 1.4.4.1.1

For each element listed, tell whether it forms a cation or an anion. Then tell whether the charge is predictable or variable. If it is predictable, give the charge.

- a) O
- b) Li
- c) Cl
- d) Ca
- e) Ti
- f) Se
- g) Fe
- h) P
- i) K
- j) Ag

Answer a

anion, predictable, -2

Answer b

cation, predictable, $+1$

Answer c

anion, predictable, -1

Answer d

cation, predictable, $+2$

Answer e

cation, variable

Answer f

anion, predictable, -2

Answer g

cation, variable

Answer h

anion, predictable, -3

Answer i

cation, predictable, $+1$

Answer j

cation, predictable, $+1$

Exercise 1.4.4.1.1

Which elements in the list below do not usually form ions at all?

Na Ne N C Ca Br B Si S Al

Answer

Ne C B Si

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