

Roman Numerals and Cation Names

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group 1, 2, Al metals
(represent. metals)

1: +1 2: +2 Al: +3

No Roman Numeral
[Fixed Charge]

Na: Sodium Ion

Al: Aluminum Ion

groups 3-12, In/Tl, Sn/Pb
(trans. metals)

Variable charges

Need Roman Numeral

Cu^{2+} : Copper(II) Ion

Cu^{3+} : Copper(III) Ion

I: 1

II: 2

III: 3

IV: 4

V: 5

VI: 6

VII: 7

VIII: 8

Anions vs. Polyatomic Ions

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Binary Anions (one atom ion)

[name from chart]

Cl: Chloride Ion

O: Oxide Ion

H: Hydride Ion

Polyatomic Anions (two + atoms)

[name from chart, fixed charge, no roman numeral]

ClO_3^{1-} : Chlorate Ion

OH^{1-} : Hydroxide Ion