

1

電子配置

1	2	13	14	15	16	17	18
H 1							He 2
Li 2-1	Be 2-2	B 2-3	C 2-4	N 2-5	O 2-6	F 2-7	Ne 2-8
Na 2-8-1	Mg 2-8-2	Al 2-8-3	Si 2-8-4	P 2-8-5	S 2-8-6	Cl 2-8-7	Ar 2-8-8

2

	イオン式	名称
(1)	Ca ²⁺	カルシウムイオン
(2)	Cl ⁻	塩化物イオン
(3)	Mg ²⁺	マグネシウムイオン
(4)	F ⁻	フッ化物イオン
(5)	S ²⁻	硫化物イオン

3

	陽イオン	陰イオン	組成式	名称
(1)	Mg ²⁺	Cl ⁻	MgCl ₂	塩化マグネシウム
(2)	Ca ²⁺	CO ₃ ²⁻	CaCO ₃	炭酸カルシウム
(3)	Na ⁺	SO ₄ ²⁻	Na ₂ SO ₄	硫酸ナトリウム
(4)	Al ³⁺	OH ⁻	Al(OH) ₃	水酸化アルミニウム

4

F - F	H - C ≡ N	N ≡ N
O = C = O	$\begin{array}{c} \text{F} - \text{N} - \text{F} \\ \\ \text{F} \end{array}$	$\begin{array}{c} \text{H} \quad \text{H} \\ \quad \\ \text{H} - \text{C} = \text{C} - \text{H} \end{array}$

5

$\begin{array}{c} \text{CH}_4\text{O} \quad \text{H} \\ \\ \text{H} - \text{C} - \text{O} - \text{H} \\ \\ \text{H} \end{array}$	$\begin{array}{c} \text{CH}_2\text{O} \\ \text{H} - \text{C} - \text{H} \\ \\ \text{O} \end{array}$	$\begin{array}{c} \text{CH}_2\text{O}_2 \\ \text{H} - \text{C} - \text{O} - \text{H} \\ \\ \text{O} \end{array}$
$\begin{array}{c} \text{C}_2\text{H}_2\text{O}_4 \\ \text{H} - \text{O} - \text{C} - \text{C} - \text{O} - \text{H} \\ \quad \\ \text{O} \quad \text{O} \end{array}$	$\begin{array}{c} \text{C}_4\text{H}_{10} \\ \text{H} \quad \text{H} \quad \text{H} \\ \quad \quad \\ \text{H} - \text{C} - \text{C} - \text{C} - \text{H} \\ \quad \quad \\ \text{H} - \text{C} - \text{H} \\ \\ \text{H} \end{array}$	$\begin{array}{c} \text{C}_4\text{H}_{10} \\ \text{H} \quad \text{H} \quad \text{H} \quad \text{H} \\ \quad \quad \quad \\ \text{H} - \text{C} - \text{C} - \text{C} - \text{C} - \text{H} \\ \quad \quad \quad \\ \text{H} \quad \text{H} \quad \text{H} \quad \text{H} \end{array}$

6

$\begin{array}{c} \text{NaF} \\ \text{Na}^+ \quad \text{F}^- \end{array}$	$\begin{array}{c} \text{H}_2\text{S} \\ \text{H} - \text{S} - \text{H} \end{array}$	$\begin{array}{c} \text{MgO} \\ \text{Mg}^{2+} \quad \text{O}^{2-} \end{array}$
$\begin{array}{c} \text{KCl} \\ \text{K}^+ \quad \text{Cl}^- \end{array}$	$\begin{array}{c} \text{CH}_4 \\ \text{H} \\ \\ \text{H} - \text{C} - \text{H} \\ \\ \text{H} \end{array}$	$\begin{array}{c} \text{OF}_2 \\ \text{F} - \text{O} - \text{F} \end{array}$

7

8

(1)	(2)

9

10

11

(1)	NaCl + AgNO ₃ → AgCl + NaNO ₃
(2)	BaCl ₂ + H ₂ SO ₄ → BaSO ₄ + 2HCl
(3)	Pb(NO ₃) ₂ + 2KI → PbI ₂ + 2KNO ₃
(4)	C ₂ H ₆ O + 3O ₂ → 2CO ₂ + 3H ₂ O
(5)	C ₃ H ₈ + 5O ₂ → 3CO ₂ + 4H ₂ O

組 番 氏名