

电子式的书写

例、请写出下列微粒的电子式

(1) 原子: Na _____, Cl _____, O _____, N _____, C _____, P _____, Al _____

即时练习

离子键

K₂S _____, CaO _____, CaF₂ _____, NaOH _____, NaH _____, NH₅ _____, CaC₂ _____, Na₂O₂ _____, NH₄Cl _____, FeS₂ _____, Mg₃N₂ _____, Na₃N _____, NCl₃ _____,

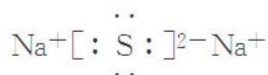
共价键

N₂ _____, Cl₂ _____, O₂ _____, H₂O _____, CO₂ _____, CH₄ _____, H₂O₂ _____, HClO _____, CCl₄ _____, BF₃ _____, PCl₃ _____, CS₂ _____

判断正误(正确打“√”,错误的打“×”,并改正)

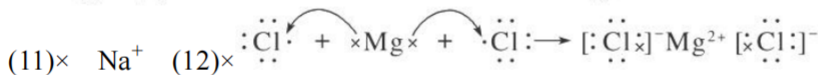
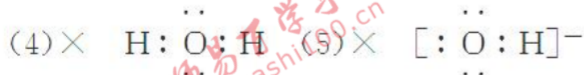
序号	电子式	判断正误并改正
1.	Na ₂ S $[\text{Na}^+]:\ddot{\text{S}}:^{2-}[\text{Na}^+]$	
2.	Na ₂ O $\text{Na}_2^+[:\ddot{\text{O}}:]^{2-}$	
3.	MgBr ₂ $\text{Mg}^{2+}[:\ddot{\text{Br}}:]_2^-$	
4.	H ₂ O $\text{H}^+[:\ddot{\text{O}}:]^{2-}\text{H}^+$	
5.	OH ⁻ $\begin{array}{c} \cdot\cdot \\ :\ddot{\text{O}}:\text{H} \\ \cdot\cdot \end{array}$	
6.	HClO $\begin{array}{c} \cdot\cdot \quad \cdot\cdot \\ \text{H}:\ddot{\text{Cl}}:\ddot{\text{O}}: \\ \cdot\cdot \quad \cdot\cdot \end{array}$	
7.	Cl ₂ $\text{Cl}:\text{Cl}$	
8.	O ₂ ²⁻ $[:\ddot{\text{O}}::\ddot{\text{O}}:]^{2-}$	
9.	羟基 $\begin{array}{c} \cdot\cdot \\ \cdot\ddot{\text{O}}:\text{H} \\ \cdot\cdot \end{array}$	
10.	H ₂ S $\begin{array}{c} \cdot\cdot \quad \times \\ \text{H}\times\ddot{\text{S}}\times\text{H} \\ \cdot\cdot \quad \times \end{array}$	
11.	Na ⁺ $[:\ddot{\text{Na}}:]^+$	
12.	$:\ddot{\text{Cl}}\cdot + \times\text{Mg}\times + \cdot\ddot{\text{Cl}}: = [:\ddot{\text{Cl}}:]^- \text{Mg}^{2+} [:\ddot{\text{Cl}}:]^-$	

答案



(1)×

(2)×



2. 书写下列粒子的电子式:

(1) Mg _____, S _____。

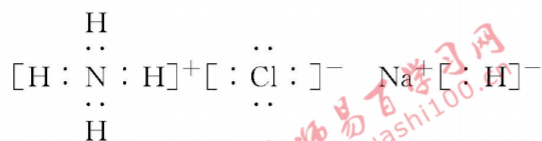
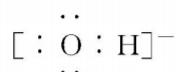
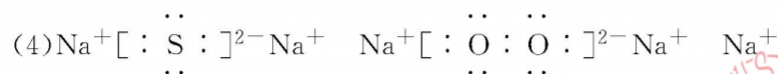
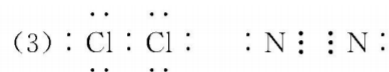
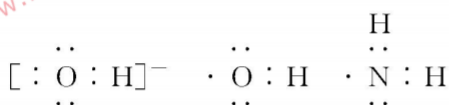
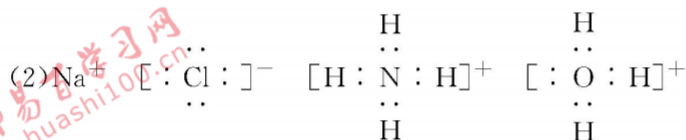
(2) Na⁺ _____, Cl⁻ _____, NH₄⁺ _____, H₃O⁺ _____, OH⁻ _____。

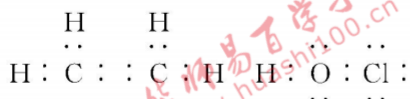
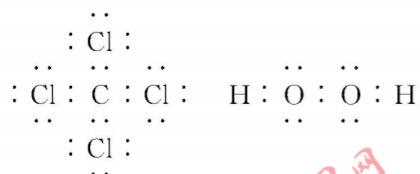
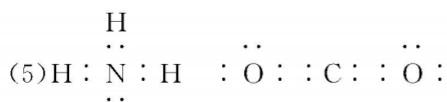
(3) Cl₂ _____, N₂ _____。

3. (1) Na₂S _____, Na₂O₂ _____, NaOH _____, NH₄Cl _____, NaH _____。

(2) NH₃ _____, CO₂ _____, CCl₄ _____, H₂O₂ _____, C₂H₄ _____, HClO _____。

答案: 2 (1) $\cdot \text{Mg} \cdot$ $\cdot \ddot{\text{S}} \cdot$





5. 书写下列物质的电子式:

(1) (·天津卷) $\text{Mg}(\text{OH})_2$ 的电子式为_____;

(2) (·海南卷) C 的最高价氧化物的电子式为_____;

(3) (·天津卷) NaOH 的电子式为_____;

(4) (·海南卷) PH_3 的电子式为_____;

(5) (·全国卷 II) 联氨 (N_2H_4) 的电子式为_____;

(6) (·浙江卷) 硫化氢的电子式为_____;

(7) (·全国卷 I) 硼氢化钠 (NaBH_4) 的电子式为_____;

(8) (·浙江卷) H_2O_2 的电子式为_____;

(9) (·海南卷) 甲硅烷 (SiH_4) 的电子式为_____;

(10) (·全国卷) 光气的化学组成为 COCl_2 , 每个原子均达到 8 电子稳定结构, 其电子式为_____

(11) Na 在氧气中完全燃烧所得产物的电子式为_____。

【答案】

