

Hydrogen Halides & Acids

1. What is the word equation for hydrogen reacting with fluorine to form hydrogen fluoride?

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2. What is the word equation for hydrogen reacting with chlorine to form hydrogen chloride?

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3. What is the word equation for hydrogen reacting with bromine to form hydrogen bromide?

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4. What is the symbol equation for hydrogen reacting with fluorine to form hydrogen fluoride?

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5. What is the symbol equation for hydrogen reacting with chlorine to form hydrogen chloride?

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6. What is the symbol equation for hydrogen reacting with bromine to form hydrogen bromide?

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7. What is the name of the acid formed when hydrogen fluoride, HF, dissolves in water?

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8. What is the name of the acid formed when hydrogen chloride, HCl, dissolves in water?

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9. What is the name of the acid formed when hydrogen bromide, HBr, dissolves in water?

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10. What happens to the hydrogen halide molecule when it dissolves in water?

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11. Explain what makes the solution acidic when a hydrogen halide dissolves in water?

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12. Draw a diagram to explain your answer to question 10 and 11. Use HCl in your example.

