

Factors affecting the rate of diffusion **Triple only**

Name three factors that affect the rate of diffusion.

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How does a larger surface area affect the rate of diffusion?

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How does a steeper concentration gradient affect the rate of diffusion?

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How does a greater diffusion distance affect the rate of diffusion?

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State Fick's law.

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What does the symbol $\propto$ mean?

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In Fick's law, what happens to the rate if the membrane thickness doubles?

It increases the rate of diffusion.

Surface area, concentration gradient and diffusion distance.

It decreases the rate of diffusion.

It increases the rate of diffusion.

Is proportional to.

Rate of diffusion is proportional to surface area $\times$ concentration difference $\div$ thickness of membrane.

The rate halves, if the other factors stay the same.