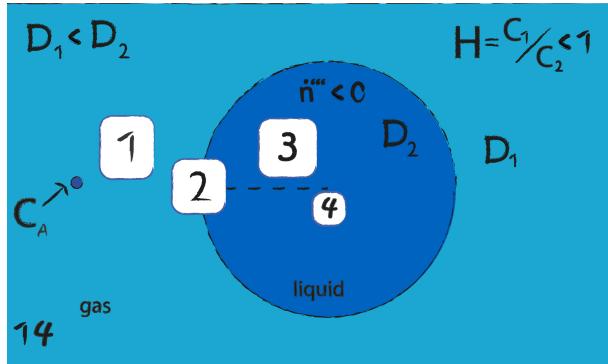




Diffusion: Task 14



The image describes a circular liquid surrounded by a gas phase, whose diffusion coefficient is lower than the liquid material and on the interface $C_2 < C_1$. Inside the liquid there is a homogeneous material loss

There is a fixed concentration with continuous mass production that means continuous flux from equation

1



$$\dot{n} = A * D * (\delta C / \delta V)$$

Consequently, the line should be positive up.

2



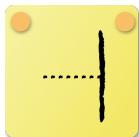
The diffusion coefficient in 1 is smaller than in 2, so the slope in 1 is steeper than in 2. On the interface, the concentration in 2 is larger than in 1

3



Due to the material loss. The concentration gradient decreases from outside to inside

4



due to symmetry reasons, the concentration gradient must be zero in the center