

# LOGARITME– ABC

(udfyldes alene på grundlag af hovedregning!)

$100 = 10^2$ ; $\log 100 = 2$ $0,1 = 10^{-1}$ ; $\log 0,1 = -1$ $10 = 10^1$ $1 = 10^0$	$\log 1000 =$ $0,0001 =$ $\log 0,0001 =$ $\log 10 =$ $\log 1 =$ $\log \frac{1}{10^7} =$ $\log \frac{1}{10^{-5}} =$
$10^2 \cdot 10^3 = 10^5$ $\log 10^5 = \log 10^2 + \log 10^3$ $\log 10^3 = \log 10^5 - \log 10^2$ $A^2 = A \cdot A$ $2^5 = 32$ ; $2^{10} = (2^5)^2$ $2^{10} \approx 10^{3,0}$	$10^{10} \cdot 10^{15} =$ $10^8/10^5 =$ $\log(A \cdot B) =$ $\log(A / B) =$ $\log A^2 =$ $2^{10} =$ $\log 2^{10} \approx$
$\log 2^{10} = 10 \log 2$ $2 \cdot 2 = 4$ $5 = 10/2$ ; $\log 5 = 1 - 0,30 = 0,70$ $\log 2 \cdot 10^5 = 5 + \log 2 = 5,30$ $\log 4 \cdot 10^{-6} = -6 + 0,60 = -5,4$ $10^{5,30} = 2 \cdot 10^5$	$\log 2 =$ (2 decimaler) $\log 4 =$ $2,5 = 10/4$ ; $\log 2,5 =$ $\log 2,5 \cdot 10^{10} =$ $\log 5 \cdot 10^{-2} =$ $10^{3,7} =$ ; $10^{-2,6} =$
<p>A = rent tal;</p> $pA \equiv -\log A = \log \frac{1}{A}$ $p 10^5 = -5$ $p 10^{-8} = 8$ $p 2 \cdot 10^{-5} = 5 - 0,30 = 4,70$	$p 1000 =$ $p 10^{-2} =$ $p 0,1 =$ $p 5 \cdot 10^{-3} =$ $p 0,02 =$

<p>C = koncentration:</p> $pC = -\log \frac{C}{\text{mol/L}}$ <p>C = 0,001 mol/L</p> <p>pC = 3</p>	<p>C = 1 M; pC =</p> <p>C = <math>10^{-8}</math> M; pC =</p> <p>C = <math>2 \cdot 10^{-3}</math> M; pC =</p>
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<p>C = 25 mmol/L</p> $\frac{C}{\text{mol/L}} = \frac{25 \text{ mmol/L}}{1000 \text{ mmol/L}}$ $= 2,5 \cdot 10^{-2};$ <p>pC = <math>2 - 0,40 = 1,60</math></p>	<p>C = 10 mol/L; pC =</p> <p>C = 5 mmol/L; pC =</p> <p>C = 400 mol/m<sup>3</sup>; pC =</p>
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<p><math>8 = 2^3</math></p> <p><math>\log 80 \approx \log 81 = \log 9^2 = 2 \log 9</math></p> <p><math>7 \cdot 7 = 49 \approx 50</math></p>	<p><math>\log 8 =</math></p> <p><math>\log 80 =</math></p> <p><math>\log 9 =</math></p> <p><math>\log 3 =</math></p> <p><math>\log 6 =</math></p> <p><math>\log 50 =</math>                      <math>\log 7 =</math></p> <p><math>\log 2,5 =</math></p> <p><math>\log 1,5 =</math></p> <p><math>\log 3 \cdot 10^{-5} =</math></p> <p><math>\log 1/700 =</math></p>
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x	log x
1	
1,5	
2	
2,5	
3	
4	
5	
6	
7	
8	
9	
10	

