

**EXAMINATION DATA SHEET FOR THE PHYSICAL SCIENCES
(CHEMISTRY)**

TABLE 1 PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Magnitude of charge on electron	e	$1,6 \times 10^{-19} \text{ C}$
Mass of an electron	m_e	$9,1 \times 10^{-31} \text{ kg}$
Standard pressure	p°	$1,01 \times 10^5 \text{ Pa}$
Molar gas volume at STP	V_m	$22,4 \text{ dm}^3 \cdot \text{mol}^{-1}$
Standard temperature	T°	273 K
Avogadro's constant	N_A	$6,02 \times 10^{23} \text{ mol}^{-1}$
Faraday's constant	F	$96\,500 \text{ C} \cdot \text{mol}^{-1}$

TABLE 2 CHEMISTRY FORMULAE

$n = \frac{m}{M}$	$n = \frac{N}{N_A}$	$n = \frac{V}{V_m}$
$c = \frac{n}{V}$ OR $c = \frac{m}{MV}$	$K_w = [\text{H}_3\text{O}^+] \cdot [\text{OH}^-] = 1 \times 10^{-14}$ at 25 °C (298 K)	
$q = It$ $q = nF$	$E_{\text{cell}}^\circ = E_{\text{cathode}}^\circ - E_{\text{anode}}^\circ$ $E_{\text{cell}}^\circ = E_{\text{oxidising agent}}^\circ - E_{\text{reducing agent}}^\circ$	

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The Physics Behind Semiconductor Technology Albrecht Winnacker, 2022-12-04 This textbook teaches the physics and technology of semiconductors highlighting the strong interdependence between the engineering principles and underlying physical fundamentals It focuses on conveying a basic understanding of the physics materials and processes involved in semiconductor technology without relying on detailed derivations The book features separate comments on the key physical principles covered allowing the reader to quickly grasp the take home message Chapter end questions and answers round out this compact book making it a helpful and dependable resource for physicists electrical engineers and materials scientists working with electronic materials Aimed at upper level undergraduate students and written by an author with extensive experience in both industry and academia this textbook gives physicists the opportunity to learn about the materials and technology behind semiconductors while providing engineers and materials scientists a deeper understanding of the physics behind the technology

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