



# Chemistry

Name: \_\_\_\_\_

Section \_\_\_\_\_

Charles' Law WS

Date: \_\_\_\_\_

Solve the following problems. Assume constant temperature. Show setups, the formula, all substitutions, and include all units and cancellations.

1. A sample of nitrogen gas occupies a volume of 250. mL at 25°C. What volume will it occupy at 95°C?

$$V_1 = 250. \text{ mL} \quad T_1 = 25^\circ\text{C} = 298 \text{ K} \quad T_2 = 95^\circ\text{C} = 368 \text{ K} \quad V_2 = ?$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad V_2 = \frac{V_1 T_2}{T_1} \quad V_2 = \frac{250. \text{ mL} \times 368 \text{ K}}{298 \text{ K}} = 309 \text{ mL}$$

2. Oxygen gas is at a temperature of 40°C when it occupies a volume of 2.3 liters. To what temperature should it be raised to occupy a volume of 6.5 liters?

$$V_1 = 2.3 \text{ L} \quad T_1 = 40^\circ\text{C} = 313 \text{ K} \quad V_2 = 6.5 \text{ L} \quad T_2 = ?$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad T_2 = \frac{V_2 T_1}{V_1} \quad T_2 = \frac{6.5 \text{ L} \times 313 \text{ K}}{2.3 \text{ L}} = 880 \text{ K} = 610^\circ\text{C}$$

3. Hydrogen gas was cooled from 151°C to 51°C. Its new volume is 75 mL. What was the original volume?

$$T_1 = 151^\circ\text{C} = 424 \text{ K} \quad T_2 = 51^\circ\text{C} = 324 \text{ K} \quad V_2 = 75 \text{ mL} \quad V_1 = ?$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad V_1 = \frac{V_2 T_1}{T_2} \quad V_1 = \frac{75 \text{ mL} \times 424 \text{ K}}{324 \text{ K}} = 98 \text{ mL}$$

4. Chlorine gas occupies a volume of 25 mL at 305 K. What volume will it occupy at 605 K?

$$V_1 = 25 \text{ mL} \quad T_1 = 305 \text{ K} \quad T_2 = 605 \text{ K} \quad V_2 = ?$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad V_2 = \frac{V_1 T_2}{T_1} \quad V_2 = \frac{25 \text{ mL} \times 605 \text{ K}}{305 \text{ K}} = 50. \text{ mL}$$

5. A sample of neon gas at 55°C and a volume of 2.5 liters is cooled to 25°C. What is the new volume?

$$T_1 = 55^\circ\text{C} = 328 \text{ K} \quad V_1 = 2.5 \text{ L} \quad T_2 = 25^\circ\text{C} = 298 \text{ K} \quad V_2 = ?$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad V_2 = \frac{V_1 T_2}{T_1} \quad V_2 = \frac{2.5 \text{ L} \times 298 \text{ K}}{328 \text{ K}} = 2.3 \text{ L}$$

6. Fluorine gas at 305 K occupies a volume of 525 mL. What temperature would result in a volume of 310 mL?

$$T_1 = 305 \text{ K} \quad V_1 = 525 \text{ mL} \quad T_2 = ? \quad V_2 = 310 \text{ mL}$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad T_2 = \frac{V_2 T_1}{V_1} \quad T_2 = \frac{310 \text{ mL} \times 305 \text{ K}}{525 \text{ mL}} = 180 \text{ K}$$

7. Helium occupies a volume of 3.8 liters at -45°C. What volume will it occupy at 45°C?

$$V_1 = 3.8 \text{ L} \quad T_1 = -45^\circ\text{C} = 228 \text{ K} \quad T_2 = 45^\circ\text{C} = 318 \text{ K} \quad V_2 = ?$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad V_2 = \frac{V_1 T_2}{T_1} \quad V_2 = \frac{3.8 \text{ L} \times 318 \text{ K}}{228 \text{ K}} = 5.3 \text{ L}$$

8. A sample of argon gas is cooled and its volume changes from 385 mL to 255 mL. If its final temperature is -55°C, what was its original temperature?

$$V_1 = 385 \text{ mL} \quad V_2 = 255 \text{ mL} \quad T_2 = -55^\circ\text{C} = 218 \text{ K} \quad T_1 = ?$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad T_1 = \frac{V_1 T_2}{V_2} \quad T_1 = \frac{385 \text{ mL} \times 218 \text{ K}}{255 \text{ mL}} = 329 \text{ K} = 56^\circ\text{C}$$

# Essential Experiments For Chemistry Answer Key 12c

**Joacim Rocklöv**



## Essential Experiments For Chemistry Answer Key 12c:

Cumulated Index to the Books ,1928 *Comprehensive Supramolecular Chemistry II* George W. Gokel, Len Barbour, 2017-06-22 *Comprehensive Supramolecular Chemistry II* Second Edition Nine Volume Set is a one stop shop that covers supramolecular chemistry a field that originated from the work of researchers in organic inorganic and physical chemistry with some biological influence The original edition was structured to reflect in part the origin of the field However in the past two decades the field has changed a great deal as reflected in this new work that covers the general principles of supramolecular chemistry and molecular recognition experimental and computational methods in supramolecular chemistry supramolecular receptors dynamic supramolecular chemistry supramolecular engineering crystallographic engineered assemblies sensors imaging agents devices and the latest in nanotechnology Each section begins with an introduction by an expert in the field who offers an initial perspective on the development of the field Each article begins with outlining basic concepts before moving on to more advanced material Contains content that begins with the basics before moving on to more complex concepts making it suitable for advanced undergraduates as well as academic researchers Focuses on application of the theory in practice with particular focus on areas that have gained increasing importance in the 21st century including nanomedicine nanotechnology and medicinal chemistry Fully rewritten to make a completely up to date reference work that covers all the major advances that have taken place since the First Edition published in 1996 **Foundations of College Chemistry, Alternate** Morris Hein, Susan Arena, 2010-01-26 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years this book has helped them master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They ll learn how to apply concepts with the help of worked out examples In addition *Chemistry in Action* features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis **Normal Instructor and Teachers World** ,1923 **The Cumulative Book Index** ,1933 First Life On Earth Dr Gurram Veera Raghavaiah, 2026-01-09 The origin of life on Earth marks biology s foundational puzzle chemistry to self replicating cells *First Life on Earth* traces this from Hadean accretion 4 6 Ga molten chaos Late Heavy Bombardment delivering water organics to Archean oceans as life s reactor Reducing atmosphere CO CH NH energy UV lightning vents drove synthesis of HCN amino acids nucleobases lipids Miller Urey Murchison meteorite Abiogenesis theories complement RNA World ribozymes for replication Metabolism First Iron Sulfur World at vents Alkaline Vents proton gradients Protocells from fatty acid vesicles grew divided evolving via pre Darwinian selection to LUCA Evidence C isotopes 3 7 4 1 Ga Greenland Canada 3 5 Ga stromatolites Dresser Fm Australia biomarkers Cyanobacteria s oxygenic photosynthesis triggered Great Oxidation 2 4 Ga forming O atmosphere ozone BIFs spurring eukaryotes via endosymbiosis Astrobiology implications water gradients key for Mars Europa exoplanets Life emerged incrementally via geochemistry a tractable cosmic story binding

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entertaining and characteristic works and the lack of serious difficulties in the text makes it accessible to the less advanced student of greek

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web why this class of old men if irritated becomes as terrible as a swarm of wasps they carry below their loins the sharpest of stings with which to prick their foes they shout and leap and their stings burn like so many sparks

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web wasps was produced by aristophanes himself 1 at the lenaea of 422 and placed second philonides placed first with the preview proagon and leucon third with ambassadors it is likely however that aristophanes also wrote the preview ancient citations from it are ascribed to aristophanes never to philonides who produced at least two other

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web a group of fellow jurors twenty or so elderly impoverished athenians costumed as wasps arrives and inspires philocleon to an audacious escape attempt this rouses the household and brings the situation to a head resulting first in a direct physical confrontation between the two camps and then in a battle of wits agon

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web then the chorus of wasps representing philocleon s fellow dicasts appear on the scene to rescue him a battle royal takes place on the stage the wasps with their formidable stings trying to storm the house while the son and his retainers defend their position with desperate courage

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web wasps defeat at delium in late 424 and the subsequent loss of amphipolis public opinion had turned against his aggressive war policies so that he was not reelected to the board of generals and in spring 423 the athenians voted against his advice in favor of a one year truce with sparta

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web some events that influenced the wasps 431 the peloponnesian war commenced 426 aristophanes won first prize at the city dionysia with his second play the babylonians now lost and he was 425 athens obtained a significant victory against sparta in the battle of sphacteria and cleon

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web sep 5 2023 in the beginning of aristophanes s the wasps two slaves guard the rooftop of bdelycleon and philocleon hater of cleon and lover of cleon respectively the three are watching the father

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web apr 25 2018 the wasps is a play written by the lone representative of ancient greece s old attic comedy aristophanes c 445 c 386 bce it won second place at the lenaea competition in 422 bce written in two acts the play focuses on a reoccurring theme the tension between the old and new

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web enter the chorus of old jurors dressed as wasps and carrying torches part of their dress includes a cap they are accompanied by the boys who are guiding them

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