

① $x = 0.01$ Cr, $Ni = 0.04$

Mg = $0.5 \times 0.95 = 0.475$ M (Mg nitrate)

$0.475 = \frac{n}{0.05} \Rightarrow n = 0.02375$ mol

$\therefore w = 6.0895$ g
Mg nitrate

Ni = $0.5 \times 0.04 = 0.02$ M

$0.02 = \frac{n}{0.05} \Rightarrow n = 0.001$ mol

$w = 0.2908$ g
Ni nitrate

Cr = $0.5 \times 0.01 = 0.005$

$0.005 = \frac{n}{0.05} \Rightarrow n = 0.00025$ mol

$w = 0.100035$ g
Cr nitrate

② $x = 0.03$ Cr, $Ni = 0.02$

Mg $w = 6.0895$ g

Ni = $0.5 \times 0.02 = 0.01$ M

$\therefore n = 0.0005$ mol Ni

$w = 0.1457$ g
Ni nitrate

Cr = $0.5 \times 0.03 = 0.015$ M

$n = 0.00075$ mol

$w = 0.300105$ g
Cr nitrate

Analytical Chemistry Calculation Questions And Answers

John Kenkel



Analytical Chemistry Calculation Questions And Answers:

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Analytical Chemistry for Technicians, Second Edition John Kenkel, 1994-07-22 The second edition of Analytical Chemistry for Technicians provides the nuts and bolts of analytical chemistry and focuses on the practical aspects for training a technician level laboratory worker This edition presents new and expanded chapters innumerable questions and problems and modified experiments that present a fresh and challenging approach Some of the topics that have been expanded include chemical equilibrium chromatography Kjeldahl method and molarity and moles where EDTA and water hardness calculations are concerned New discussions of the Ag AgCl and combination pH electrodes have been added while the discussion of ion selective electrodes has been expanded The chapter introducing instrumental analysis and computers now includes discussions of $y = mx + b$ and the method of least squares The book also includes discussions of FTIR topics of NMR and mass spectrometry which are found in the new infrared spectrometry chapter

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Analytical Chemistry Gary

D. Christian, Purnendu K. Dasgupta, Kevin A. Schug, 2013-10-07 With the 7th Edition of Analytical Chemistry renowned chemists Purnendu Sandy Dasgupta and Kevin Schug both of the University of Texas Arlington join the author team The new edition focuses on more in depth coverage of the principles and techniques of quantitative analysis and instrumental analysis aka Analytical Chemistry The goal of the text is to provide a foundation of the analytical process tools and computational methods and resources and to illustrate with problems that bring realism to the practice and importance of analytical chemistry It is designed for undergraduate college students majoring in chemistry and in fields related to chemistry

Foundations of Analytical Chemistry Miguel Valcárcel Cases, Ángela I. López-Lorente, Ma Ángeles López-Jiménez, 2017-08-29 This book offers a completely new approach to learning and teaching the fundamentals of analytical chemistry It summarizes 250 basic concepts of the field on the basis of slides Each of the nine chapters offers the following features Introduction Summary General scheme Teaching objectives Text containing the explanation of each slide Recommended and commented bibliography Questions to be answered Slides A distinct feature of this novel book is its focus on the fundamental concepts and essential principles of analytical chemistry which sets it apart from other books presenting descriptive overviews of methods and techniques

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