

Radiometric Titration:

- **Definition:**

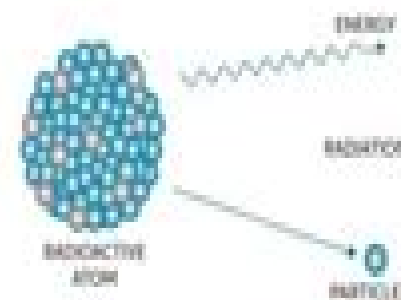
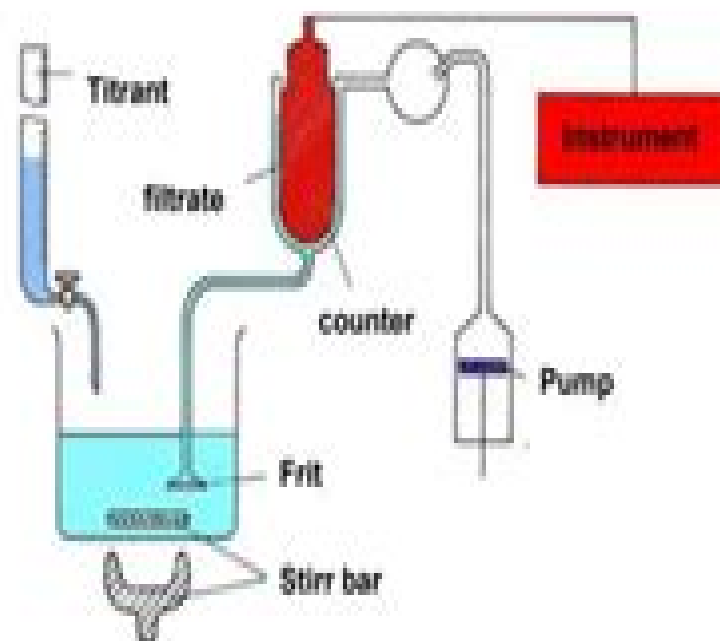
Radiometric titration is an analytical technique that uses radioactive isotopes to measure the concentration of an analyte in a sample. It is a form of titration that relies on the principle of radioactive decay.

- **Principle:**

- It is based on radioactive decay, which is the spontaneous breakdown of an unstable atomic nucleus into a more stable nucleus, emitting radiation in the process.
- The rate of radioactive decay is proportional to the number of radioactive atoms present in the sample, and this can be used to determine the concentration of the analyte being measured.

- **Radioactive Isotopes :**

- Carbon-14, Tritium.
- Phosphorus-32, Sulfur-35.
- Iodine-125



Radiometric Titrations

Albert Heijink



Radiometric Titrations:

Radiometric Titrations Tibor Braun, Juraj Tölgyessy, 1967 *Radiometric titrations based on phase separation by means of ion...* Albert Heijink, 19?? *Radiochemistry* G. W. A. Newton, 1972 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields, the series creates a unique service for the active research chemist, supplying regular, critical, in-depth accounts of progress in particular areas of chemistry. For over 90 years, The Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967, the whole spectrum of chemistry could no longer be contained within one volume, and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three volumes, covering Inorganic, Organic, and Physical Chemistry. For more general coverage of the highlights in chemistry, they remain a must. Since that time, the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name, whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume. *Advanced Inorganic Chemistry Vol-1*, CRC Handbook of Radioanalytical Chemistry Volume 1 Juraj Tölgyessy, Erno Bujdosó, 1991-04-03. Radioanalytical methods have become among the most important means for elemental analysis and the determination of chemical species. Their extreme sensitivity has made them indispensable in a wide range of applications, including mineral analysis, medical and biophysical work, criminology, history, archaeology, and space research. This handbook combines theoretical and practical radioanalytical work, covering the entire field of radioanalytical chemistry. Topics discussed include analysis by activation and nuclear reactions, isotope dilution, analysis, radioreagent methods, analysis by absorption, and the scattering of radiation. The handbook is extremely useful to scientists conducting applied and basic research in subjects related to analytical measurements, engineers designing control facilities and equipment, and professors and students working with analytical chemistry, radiochemistry, radioanalytical chemistry, environmental chemistry, biology, and physics. **Emanation Thermal Analysis and Other Radiometric Emanation Methods** V. Balek, J. Tölgyessy, 2025-02-03. *Emanation Thermal Analysis and Other Radiometric Emanation Methods* *Radiochemical Methods in Analysis* D. Coomber, 2012-12-06. The aim of this book is to give an account of the principal radiochemical methods used in chemical analysis. It is assumed that the reader already has some background knowledge of radioactivity available from several general textbooks. For this reason, some subjects, e.g., the fundamentals of radioactivity, the properties of radiation, statistics of counting procedures, the precautions needed in working with radioactive materials, which could have occupied half the text, are not considered in detail. The different aspects of radiochemical analysis have been covered by specialized books and reviews, e.g., on activation analysis, gamma spectrometry, radiometric titrations, A

good deal of information is in the form of reports of meetings and symposia and liquid scintillation counting for instance has been mainly covered in this way There are also a large number of journals It is therefore hoped that this book will help fill the gap between the introductory texts and the specialized sources many of which are referred to in the chapter references The first three chapters in the present volume deal with the methods of measurement of radioactive nuclides Chapter I gives a general account of detection and measurement techniques The next two chapters are devoted to two specialized techniques gamma ray spectrometry and liquid scintillation counting

Nuclear and Radiation Chemistry, Radiometric Titrations Tibor Braun, Juraj Tölgyessy, 1967

Modern Nuclear Chemistry Walter D. Loveland, David J. Morrissey, Glenn T. Seaborg, 2005-11-08 Modern Nuclear Chemistry provides up to date coverage of the latest research as well as examinations of the theoretical and practical aspects of nuclear and radiochemistry Includes worked examples and solved problems Provides comprehensive information as a practical reference Presents fundamental physical principles in brief of nuclear and radiochemistry

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