

Analysis of a Mixture of Carbonate and Bicarbonate

The total alkalinity (defined as total base concentration in this case $[HCO_3^-] + 2[CO_3^{2-}]$) is measured by titrating the mixture with standard HCl to a bromocresol green end point:



Assuming all the carbonate comes from sodium carbonate and all the bicarbonate comes from sodium bicarbonate, calculate the original percent composition of these two substances in your unknown mixture.

REAGENTS

Standard 0.1 M HCl (note you must standardize it yourself):

CO₂-free water: Boil ~600 mL of distilled water to expel CO₂ and pour the water into a 1000-mL plastic bottle. Screw the cap on tightly and allow the water to cool to room temperature. Keep tightly capped when not in use.

Bromocresol green. (See Table 11-4 in the textbook.)

Unknowns: Solid unknowns (2.5 g/student) prepared from reagent-grade sodium carbonate and sodium bicarbonate. Unknowns should be stored in a desiccator and should not be heated. Heating at 50°C–100°C converts NaHCO₃ to Na₂CO₃.

Sodium carbonate (ACS grade) ~2 g/student for standardization of HCl

PROCEDURE

1. Accurately weigh 2.0–2.5 g of Sodium carbonate standard into a 250-mL volumetric flask by weighing the sample in a capped weighing bottle, delivering some to a funnel in the volumetric flask, and reweighing the bottle. Continue this process until the desired mass of reagent has been transferred to the funnel. Rinse the funnel repeatedly with small portions of CO₂-free water to dissolve the sample. Remove the funnel, dilute to the mark, and mix well (with CO₂ free water). Pipet a 25.00-mL aliquot of standard solution into a 250-mL flask and titrate with ~0.1 M HCl, using bromocresol green indicator. Repeat this procedure with three more 25.00-mL aliquots. Express your Molarity of your standardized HCl as $\bar{x} \pm s$.

2. Accurately weigh 2.0–2.5 g of unknown into a 250-mL volumetric flask by weighing the sample in a capped weighing bottle, delivering some to a funnel in the volumetric flask, and reweighing the bottle. Continue this process until the desired mass of reagent has been transferred to the funnel. Rinse the funnel repeatedly with small portions of CO₂-free water to dissolve the sample. Remove the funnel, dilute to the mark, and mix well (with CO₂ free water).

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Pradyot Patnaik



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Proceedings of the American Gas Institute American Gas Institute, 1917 List of members in v 2 4 11

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web oct 4 2021 according to cpo magazine the platform already has over 2 5 million stolen credit cards selling between 0 30

and 14 40 over 1 1 million credit cards were stolen from victims in the united states cpo says it appears about 20 per cent of the stolen credit cards are still active and about 50 per cent haven t yet been compromised

bidencash carding shop returns with a larger credit card dump - Jun 03 2023

web oct 10 2022 most of the records in the dump appear to be from the united states and contain credit card information with expiration dates between 2023 and 2026 the bigger leak may be fake or old data that has been recycled as large scale dark web posts and offers are frequently frauds

the top 5 deep and dark web credit card sites webz io - Sep 06 2023

web mar 15 2023 bidencash announces the dump of 2 million stolen credit cards for free as part of the site s 1 year anniversary celebrations bidencash is considered to be one of the most popular credit card sites today and serves as the official sponsor of the popular credit card site crdpo

credit card dump due - Aug 25 2022

web a credit card dump refers to the illegal practice of capturing and selling digital copies of credit card information often obtained through hacking malware or skimming devices here are three real world examples 1 target data breach in 2013 in 2013 target corporation s payment systems were hacked leading to a massive credit card dump

free credit card dumps website 2024 orashiloaded - Apr 20 2022

web jul 6 2022 free credit card dumps website a free credit card dumps website is a site that provides your credit card information to third party organizations without your permission this type of website can put you at risk of identity theft and fraud

credit card balances spiked in the third quarter to a record 1 08 - Jun 22 2022

web 9 hours ago credit card balances spiked by 154 billion year over year notching the largest increase since 1999 the new york fed found credit card balances experienced a large jump in the third quarter

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web nov 3 2023 there are a variety vendors of cc dumps fullz and other darkweb cashout services the demand for such products is growing among people who want september 14 2023 jokerstash cvv shop link url domains jokerstash su everything you need to know the internet is a mixed bag sometimes you find trash and sometimes you find

darkweb market bidencash gives away 1 2 million credit cards - Apr 01 2023

web oct 9 2022 a dark web carding market named bidencash has released a massive dump of 1 221 551 credit cards to promote their marketplace allowing anyone to download them for free to conduct financial

seized russian dark web sites trump s dumps ferum shop forbes - Oct 27 2022

web feb 9 2022 among sites taken down ferum shop was the world s largest marketplace for stolen credit cards making an

estimated 256 million in bitcoin since its launch in 2013 according to elliptic while

credit card dump files how to get them from the darkweb - May 02 2023

web apr 21 2022 credit card dumps are illegal commodities and an unauthorized person can use them to make unauthorized purchases most criminals sell these files in the online black market in addition

credit card dump definition examples protecting against investopedia - Jan 30 2023

web aug 3 2022 credit card dump definition examples protecting against data dumps don t only happen in america in may 2019 for example the popular australian graphic design website canva was

credit card delinquencies continue to rise who is missing - Feb 16 2022

web nov 7 2023 this morning the new york fed s center for microeconomic data released the 2023 q3 quarterly report on household debt and credit after only moderate growth in the second quarter total household debt balances grew 228 billion in the third quarter across all types especially credit cards and student loans credit card balances grew

meccadumps net fullz cvv trusted shops review - Mar 20 2022

web jul 26 2023 in our search for the best credit card dump sites we find ourselves face to face with meccadumps net what s the story with this provider do they offer legit dumps or are they a scam we didn t know the answer so we decided to dig deep the first thing we noticed when we navigated to the site s homepage was that it was bright and colorful

credit card dump overview how it works tips to avoid - Jul 04 2023

web credit card dumps are sold on the internet including the dark web to fraudsters primarily through wire transfer or cryptocurrency the fraudsters either use the credit card dump to clone credit cards to make unauthorized purchases at brick and mortar stores or online or to resell to other buyers indicators of theft of credit card information

how credit card dumps work metro credit union - Feb 28 2023

web credit card dumps happen when thieves physically copy your credit card information or hack into company payment databases that contain that information skimming is the most common method used to accomplish this skimming uses an illegal card reader to save a customer s credit card information someone could place it on a real atm or a card