

# Kinetics of Sodium Bicarbonate Decomposition

A thermal gravimetric method was used to measure rates of decomposition of  $\text{NaHCO}_3$  particles. Such decomposition produces a highly porous  $\text{Na}_2\text{CO}_3$  that reacts with  $\text{SO}_2$  rapidly and completely at moderate temperatures. Hence,  $\text{NaHCO}_3$  decomposition provides a reactant with attractive features for  $\text{SO}_2$  removal. The rapid rate of decomposition combined with the high heat effect prevented determining intrinsic rates by constant temperature runs when the temperature level was above 400 K. However, rising-temperature runs, which allowed time for heat transfer to equilibrate temperatures of the thermocouple and particles, gave reliable results at high temperatures. The activation energy was 102 kJ/mol. Porosimeter data verified the large increase in pore volume (from  $0.03$  to  $0.39 \times 10^{-3} \text{ m}^3/\text{kg}$ ) on converting the  $\text{NaHCO}_3$  particles to  $\text{Na}_2\text{CO}_3$ . First-order kinetics were observed up to high conversions, after which the apparent order decreased. However, the sodium bicarbonate could be completely converted to  $\text{Na}_2\text{CO}_3$ .

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## SCOPE

It has been well established that thermal decomposition of  $\text{NaHCO}_3$  particles can produce a highly porous  $\text{Na}_2\text{CO}_3$  product that reacts rapidly with  $\text{SO}_2$  in waste gases (Bares et al., 1970; Marecek et al., 1970). Also, rates of decomposition and of reaction with  $\text{SO}_2$  have been measured separately on different samples (Subramanian et al., 1972; Gearini et al., 1973; Bares et al., 1970; Marecek et al., 1970).

Our objective was to determine the rate of decompo-

sition of a sample of  $\text{NaHCO}_3$  particles at temperatures from 373 to 473 K over the complete range of conversion. A TGA apparatus was employed since this allowed very small sample masses to be used (leading to accurate rates) and the effect of heat and mass of transfer processes could usually be eliminated. Pore-volume data also were obtained on  $\text{NaHCO}_3$  and  $\text{Na}_2\text{CO}_3$  particles.

## CONCLUSIONS AND SIGNIFICANCE

The rapid rate of decomposition of  $\text{NaHCO}_3$  combined with a large, endothermic heat effect required careful choice of operating conditions to obtain rates unaffected by heat transfer. At temperatures above 400 K this required the TGA experiments to be conducted by the rising-temperature method. The results showed that intrinsic kinetics were first-order in mass of  $\text{NaHCO}_3$  up to high conversions. The retardation of the rate beyond this point may be due to changes in the

nature of the remaining  $\text{Na}_2\text{CO}_3$ , or the structure of the  $\text{Na}_2\text{CO}_3$  product surrounding the unreacted  $\text{Na}_2\text{HCO}_3$ . However, the rate remained high at high conversions so that the  $\text{NaHCO}_3$  was completely converted to the carbonate. The data also showed that the rate decreased when the decomposition temperature was reduced from 473 to 373 K. Corresponding pore-volume data indicated that the surface area was greater for particles decomposed at 373 K.

# Kinetics Of Sodium Bicarbonate Decomposition

**Guillaume Favre**



## **Kinetics Of Sodium Bicarbonate Decomposition:**

Thermal Decomposition Kinetics of Sodium Bicarbonate by Differential Thermal Analysis K.S. Subramanian, 1969

Thermal Decomposition of Ionic Solids A.K. Galwey, M.E. Brown, 1999-02-25 The principal objective of this book is to stimulate interest in research that will extend available theory towards a greater understanding of the steps involved in solid state decompositions and the properties of solids that control reactivities Much of the activity in this field has been directed towards increasing the range of reactants for which decomposition kinetic data is available rather than extending insights into the fundamental chemistry of the reactions being studied The first part of the book Chapters 1 6 is concerned with theoretical aspects of the subject The second part Chapters 7 17 surveys groups of reactions classified by similarities of chemical composition The final Chapter 18 reviews the subject by unifying features identified as significant and proposes possible directions for future progress Studies of thermal reactions of ionic compounds have contributed considerably to the theory of solid state chemistry Furthermore many of these rate processes have substantial technological importance for example in the manufacture of cement the exploitation of ores and in the stability testing of drugs explosives and oxidizing agents Despite the prolonged and continuing research effort concerned with these reactions there is no recent overall review This book is intended to contribute towards correcting this omission The essential unity of the subject is recognized by the systematic treatment of reactions carefully selected to be instructive and representative of the subject as a whole The authors have contributed more than 200 original research articles to the literature many during their 25 years of collaboration Features of this book Gives a comprehensive in depth survey of a rarely reviewed subject Reviews methods used in studies of thermal decompositions of solids Discusses patterns of subject development perceived from an extensive literature survey This book is expected to be of greatest value and interest to scientists concerned with the chemical properties and reactions of solids including chemists physicists pharmacists material scientists crystallographers metallurgists and others This wide coverage of the literature dealing with thermal reactions of solids will be of value to both academic and industrial researchers by reviewing the current status of the theory of the subject It could also provide a useful starting point for the exploitation of crystalline materials in practical and industrial applications The contents will also be relevant to a wide variety of researchers including for example those concerned with the stabilities of polymers and composite materials the processing of minerals the shelf lives of pharmaceuticals etc

**Accelerated Predictive Stability (APS)** Fenghe Qiu, Garry Scrivens, 2018-05-14 Accelerated Predictive Stability APS Fundamentals and Pharmaceutical Industry Practices provides coverage of both the fundamental principles and pharmaceutical industry applications of the APS approach Fundamental chapters explain the scientific basis of the APS approach while case study chapters from many innovative pharmaceutical companies provide a thorough overview of the current status of APS applications in the pharmaceutical industry In addition up to date experiences in utilizing APS data for regulatory submissions in many regions

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