

Now \_\_\_\_\_ Day \_\_\_\_\_ One \_\_\_\_\_

**CHAPTER 9** STUDY GUIDE FOR CONTENT MASTERY

## Covalent Bonding

### Section 9.1 The Covalent Bond

In your textbook, read about the nature of covalent bonds.

Use each of the terms below just once to complete the passage.

|               |          |            |            |        |
|---------------|----------|------------|------------|--------|
| covalent bond | molecule | sigma bond | exothermic | p bond |
|---------------|----------|------------|------------|--------|

When sharing of electron occurs, the attachment between atoms that results is called a(n) **(1) covalent bond**. When such an attachment is formed, bond dissociation energy is released, and the process is **(2) exothermic**. When two or more atoms bond by means of electron sharing, the resulting particle is called a(n) **(3) molecule**. If the electrons shared are contained between the two atoms, the attachment is called a(n) **(4) sigma bond**. If the sharing involves the overlap of parallel orbitals, the attachment is called a(n) **(5) p bond**.

In your textbook, read about single and multiple bonds and bond strengths.

Circle the letter of the choice that best completes the statement or answers the question.

- Is what form the elements such as hydrogen, nitrogen, and oxygen normally exist?
  - as single atoms
  - ☒ as molecules containing three atoms
  - as molecules containing two atoms
  - as molecules containing four atoms
- How many electrons are shared in a double covalent bond?
  - none
  - one
  - two
  - three
- Bond length is the distance between
  - two molecules of the same substance
  - ☒ the nuclei of two attached atoms
  - the electrons in two attached atoms
  - the orbitals of two attached atoms
- Which of the following relationships relating to bond length is generally correct?
  - ☒ the shorter the bond, the stronger the bond
  - the shorter the bond, the weaker the bond
  - the shorter the bond, the lower the electron is in
  - the shorter the bond, the lower the bond dissociation energy

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### Section 9.2 Naming Molecules

In your textbook, read about how binary compounds and acids are named from their formulas.

For each statement below, write true or false.

- Binary molecular compounds are generally composed of a metal and a nonmetal. **false**
- The second element in the formula of a binary compound is named using the suffix -ite. **false**
- The prefix zero indicates three atoms. **false**
- The prefix four indicates six atoms. **true**
- In naming the first element in a formula, the prefix zero is not used. **true**
- For binary acids, the hydrogen part of the compound is named using the prefix hydro. **true**
- An oxyacid contains only two elements. **false**
- If the name of the anion of an oxyacid ends in -ite, the acid name contains the suffix -ous. **false**

In your textbook, read about naming molecular compounds and oxoacids.

For each item in Column A, write the letter of the matching item in Column B.

Column A

- $\text{C}_2\text{H}_4$
- $\text{H}_2\text{CO}_3$
- $\text{H}_2\text{CO}$
- $\text{H}_2\text{SO}_4$
- $\text{H}_2\text{SO}_3$
- $\text{H}_2\text{N}_2\text{O}_2$
- $\text{H}_2\text{SO}_4$
- $\text{H}_2\text{SO}_3$
- $\text{H}_2\text{SO}_4$
- $\text{H}_2\text{SO}_3$

Column B

- hydrobromic acid
- nitrogen tetroxide
- carbon monoxide
- nitrous acid
- ammonia
- acetic acid
- carbonic acid
- bromic acid
- carbon dioxide

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**G Psacharopoulos**



## Chapter 1 study Guide For Content Mastery Mass The Mole:

*Resources in Education*, 1991-03      **Foundations of College Chemistry** Morris Hein, Susan Arena, Cary Willard, 2016-08-02 This text is an unbound three hole punched version Used by over 750 000 students Foundations of College Chemistry Binder Ready Version 15th Edition is praised for its accuracy clear no nonsense approach and direct writing style Foundations direct and straightforward explanations focus on problem solving making it the most dependable text on the market Its comprehensive scope proven track record outstanding in text examples and problem sets were all designed to provide instructors with a solid text while not overwhelming students in a difficult course Foundations fits into the prep intro chemistry courses which often include a wide mix of students from science majors not yet ready for general chemistry allied health students in their 1st semester of a GOB sequence science education students for elementary school teachers to the occasional liberal arts student fulfilling a science requirement Foundations was specifically designed to meet this wide array of needs      Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998      MCAT General Chemistry Review 2024-2025 Kaplan Test Prep, 2023-07-04 Always study with the most up to date prep Look for MCAT General Chemistry Review 2025 2026 ISBN 9781506294216 on sale July 2 2024 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product      Fundamentals of Chemistry Francis Marion Pottenger, Edwin E. Bowes, 1976      Matter Prentice-Hall Staff, 1994      *Introductory Chemistry* Kevin Revell, 2020-11-17 Introductory Chemistry creates light bulb moments for students and provides unrivaled support for instructors Highly visual interactive multimedia tools are an extension of Kevin Revell s distinct author voice and help students develop critical problem solving skills and master foundational chemistry concepts necessary for success in chemistry      *Matter, Building Block of the Universe*, 1993      *Physics for Scientists and Engineers* Raymond A. Serway, 2010      *CHEMISTRY* SILBERBERG, 2003      Chemistry John S. Phillips, Cheryl Wistrom, 2000      **From linear to long-chain branched poly(ethylene terephthalate) - reactive extrusion, rheology and molecular characterization** Kruse, Matthias, 2017-07-11 Poly ethylene terephthalate is one of the most widely used polymers in packaging industry due to its high mechanical strength chemical resistance and barrier functions However its processing is determined by degradation and low viscosity In particular foaming and film blowing is restricted by the linear structure of the molecule and low melt strength The stability of three linear commercial PET grades produced by different synthesis routes with different molar masses is analyzed in regards of processing at industrial scale Subsequently reactive processing with three multi functional chain extenders pyromellitic dianhydride PMDA tetraglycidyl diamino diphenyl methane TGDDM and triphenyl phosphite TPP is conducted to create large and long chain branched LCB molecules The mechanical and molecular properties in melt state are analyzed by linear and non linear viscoelastic rheology modeling by the molecular stress function MSF theory and size exclusion chromatography SEC with light scattering measurements

Thermal stability measurements in the linear viscoelastic regime revealed degradation and a reduction of the storage modulus in air atmosphere and besides thermal degradation an enhancement of the modulus in nitrogen atmosphere due to polycondensation Kruse et al 2013 Fitting by an exponential function leads to the reconstruction of the initial state of the sample at zero loading time and to a time constant which reveals clear relations between stability and molar mass for all three PET grades in both atmospheres High molar mass PET is more stable in nitrogen and less stable in air environment and vice versa depending on OH end group concentration and synthesis route The analysis by means of time resolved mechanical spectroscopy allows the observations of moduli and complex viscosity at a fixed time a wide range of angular frequencies and at different atmospheres and revealed i a plasticizer effect induced by small molecules from thermal and thermo oxidative degradation ii cross linking leading to yield stress iii diffusion influencing polycondensation reaction iv slipping due to deposition of side products and v an enhanced shear thinning regime Kruse and Wagner 2016 The extrusion of neat PET with a twin screw extruder at industrial scale leads to strong reduction of viscosity mainly due to shearing The impact of thermo oxidative degradation is comparably small The reactive processing of the three PET grades with the three chain extenders leads to the conclusion that the tri functional TPP is not a useful chain extender due to rapid degradation and toxicity The two tetra functional chain extenders PMDA and the epoxy based TGDDM lead to strong viscosity increase increasing strain hardening effect and increasing thermal stability with increasing chain extender concentration as confirmed by loss and storage modulus phase angle activation energy of flow and elongational viscosity The MSF model predictions show good agreement with data measured and allowed a quantitative analysis of the branching structure and of the stretch of the molecules by both non linear MSF parameters In comparison to the high molar mass PET with an apparent comb like structure at high PMDA concentrations the two initially low molar mass grades show a higher molar mass after processing with PMDA and seem to have a tree like structure which can be explained by the hydroxyl end group concentration of these two PET grades The extensive use of TGDDM leads to a hyperbranched and gel like structure The fracture analysis from uniaxial elongation experiments reveals a limiting stress value for high PMDA concentrations and a limiting strain value for high TGDDM concentrations due to formation of a covalent network The molecular analysis by SEC with triple detection of the high molar mass PET which was reacted with PMDA and TGDDM shows a strong increase of the average molar masses polydispersity radius of gyration and hydrodynamic radius and confirms the molar mass increase observed by the rheological measurements The branching was confirmed by a decreasing Mark Houwink exponent with increasing chain extender concentration Further the analysis of the contraction of the molecule revealed a more star like structure at low concentrations for both chain extenders With increasing concentration the structure changed to more comb like for PMDA and random tree like or hyperbranched for TGDDM as was also observed by non linear viscoelastic measurements PMDA revealed to be an excellent coupling agent which induces reproducibly either a star like comb like or tree like structures

depending on the concentration of coupling agent added and the hydroxyl concentration of the PET employed

Polyethylenterephthalat PET zeichnet sich durch hervorragende mechanische Eigenschaften sowie chemische Beständigkeit und Barriereigenschaften aus und findet insbesondere in der Verpackungsindustrie Verwendung Die Neigung zur Degradation und die wegen der linearen Kettenmoleküle geringe Viskosität schränken jedoch die Verarbeitbarkeit von PET wie beispielsweise das Schäumen und Folienblasen erheblich ein In der vorliegenden Arbeit wird der Einfluss der thermischen Stabilität während der Verarbeitung von drei linearen industriellen PET Typen untersucht die sich durch Molmasse und Herstellungsverfahren unterscheiden Des Weiteren wird langkettenverzweigtes PET LCBPET durch reaktive Verarbeitung mit drei verschiedenen multifunktionalen Kettenverlängerern Pyromellitsäuredianhydrid PMDA Tetra glycidyl Diamino Diphenyl Methan TGDDM und Triphenylphosphit TPP hergestellt und charakterisiert Durch die experimentelle Bestimmung der linearen und nichtlinearen rheologischen Eigenschaften der Schmelze und ihre Beschreibung mit Hilfe des sogenannten Molecular Stress Function MSF Modells gelingt eine quantitative Analyse des Materialverhaltens Die molekulare Analyse wird zusätzlich durch die Ergebnisse von Gelpermeationschromatographie GPC bzw SEC in Verbindung mit Lichtstreuung gestützt Die Untersuchungen der thermischen Stabilität von linearem PET im linear viskoelastischen Bereich zeigen einen abnehmenden Speichermodul und somit ein thermo-oxidatives Degradationsverhalten in Luftatmosphäre In inerter Stickstoffatmosphäre tritt hingegen nur thermische Degradation auf gleichzeitig führt jedoch eine Polykondensationsreaktion zu einem Anstieg des Moduls Kruse et al 2013 Mit einem exponentiellen Regressionsansatz kann der anfängliche Zustand des Moduls in beiden Atmosphären zum Zeitpunkt Null der dem Einbringen der Probe in das Rheometer entspricht rekonstruiert werden Die sich aus diesem Ansatz ergebende Zeitkonstante erlaubt es quantitative Zusammenhänge zwischen der thermischen Stabilität der drei PET Sorten und deren Molmasse sowie dem Herstellungsverfahren der PET Typen aufzuzeigen So weist hochmolekulares PET eine höhere Stabilität in Stickstoff und eine geringere Stabilität in Luft auf und umgekehrt Hauptursache für dieses Verhalten ist die unterschiedliche Konzentration an Hydroxylendgruppen die je nach Molmasse und Herstellungsmethode der jeweiligen PET Typen variiert Mit Hilfe der Time Resolved Mechanical Spectroscopy konnte die sich ändernde Viskosität über ein weites Frequenzspektrum und zu einer beliebigen Messzeit in beiden Atmosphären bestimmt werden Wesentliche Ergebnisse dieser Untersuchung sind der Nachweis des Auftretens von i einem Weichmachereffekt bedingt durch die thermische und thermo-oxidative Degradation und den daraus resultierenden Oligomeren ii dreidimensionaler Vernetzung mit der Ausbildung einer Fließgrenze iii Diffusionsprozessen die Einfluss auf die Polykondensationsreaktion haben iv Wandgleiten bedingt durch die Ablagerung von Nebenprodukten auf den Platten des Rheometers und v einem verbreiterten Scherverformungsbereich Kruse and Wagner 2016 Die Extrusion von linearem PET mit einem Doppelschneckenextruder unter industriellen Bedingungen führt zu einer starken Abnahme der Viskosität die hauptsächlich durch Scherung und weniger durch thermo-oxidativen Abbau verursacht

wird. Bei der reaktiven Verarbeitung der drei PET Typen mit den drei verschiedenen Kettenverlängerern erwies sich das dreifunktionale TPP auf Grund von Toxizität und Lagerinstabilität als unbrauchbar. Die Verarbeitung der beiden vierfunktionalen Kettenverlängerer PMDA und das epoxidhaltige TGDDM führt zu erhöhter Viskosität, erhöhter Dehnverfestigung und erhöhter thermischer Stabilität mit zunehmender Konzentration des jeweiligen Kettenverlängerers. Das beschriebene Verhalten zeigt sich sowohl am Speicher und Verlustmodul und dem daraus abgeleiteten Verlustwinkel als auch an der Fließaktivierungsenergie und der Dehnviskosität. Dabei lassen sich die gemessenen Dehnviskositäten sehr präzise mit dem MSF Modell beschreiben und die beiden nichtlinearen Modellparameter  $\alpha$  und  $f_{\max}^2$  ermöglichen eine quantitative Analyse der Verzweigungsstruktur und der Molekülstreckung. So zeigt die Modifizierung von hohen PMDA Konzentrationen und dem hochmolekularen PET eine mehr kammartige Struktur im Vergleich zu den beiden niedermolekularen PET Typen, die eine baumartige Molekülstruktur und eine höhere Molmasse nach der reaktiven Extrusion aufweisen. Beide Effekte können mit der höheren OH Endgruppenkonzentration der beiden niedermolekularen PET Typen erklärt werden. Zu hohe Zusätze von TGDDM führen zu einem hochverzweigten und gelartigen Polymer. Das Bruchverhalten bei der uniaxialen Dehnung von mit einem hohen Zusatz von PMDA hergestellten langkettenverzweigten PET wird von einer limitierenden Bruchspannung bestimmt. Demgegenüber bestimmt eine maximale Dehnung das Bruchverhalten des mit einem hohen TGDDM Zusatz hergestellten LCB PET, verursacht durch ein kovalent gebundenes Polymernetzwerk. Die GPC Messungen mit drei Detektoren wurden an LCB PET durchgeführt, das auf Basis der hochmolekularen PET Type hergestellt wurde. Die molekulare Analyse der mit PMDA und TGDDM modifizierten Proben zeigt eine deutliche Zunahme der mittleren Molmassen, Molmassenverteilungsbreite, des Gyrationradius und des hydrodynamischen Radius und bestätigt somit die rheologischen Ergebnisse. Das Auftreten von Verzweigungen wird außerdem durch den abnehmenden Mark Houwink Exponenten bei zunehmender Additivkonzentration verdeutlicht. Eine genauere Betrachtung weist auf eine sternartige Molekülstruktur bei geringer Zugabe beider Kettenverlängerer hin. Bei erhöhter Zugabe hingegen tritt eine kammartige Struktur bei PMDA und eine baumartige oder hochverzweigte Struktur bei TGDDM auf, wie auch aus den nichtlinearen viskoelastischen Messungen zu schließen ist. Insbesondere PMDA erweist sich als hervorragender Kettenverlängerer der bei reaktiver Extrusion reproduzierbar eine sternartige, kammartige oder baumartige Molekülstruktur in Abhängigkeit von der verwendeten PET Type und der PMDA Konzentration ermöglicht und so das Verarbeitungsspektrum von PET auf neue Anwendungsgebiete erweitert.

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McKenry, Evelyn Salerno, 2003 This Revised Reprint of a nursing pharmacology classic has been carefully updated to reflect the very latest drugs, drug indications and trends in nursing care. Its systematic monograph approach provides essential information on mechanisms of action, indications, pharmacokinetics, side effects, adverse reactions, drug interactions, dosage and administration and more. Then for every major drug or drug group, readers will find specific applications of the nursing

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