

Stoichiometry (Stoich)

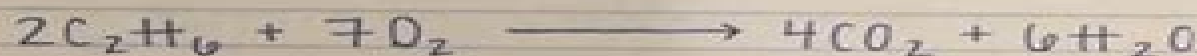
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Stoichiometry describes the method of measuring the elements of a chemical reaction.

This method allows you to determine how much of all the other chemicals you will need or can produce when you know anything about the amount of at least one chemical in the reaction.

You will definitely need a correct balanced equation in order to use this method, since it requires the use of mole ratios.

EXAMPLE:



If you burn 5.5 mol of C_2H_6 , how many mol of oxygen will you need to do this?

$$5.5 \text{ mol } \text{C}_2\text{H}_6 \left(\frac{7 \text{ mol } \text{O}_2}{2 \text{ mol } \text{C}_2\text{H}_6} \right) = 19.25$$

$$\downarrow$$

$19 \text{ mol } \text{O}_2$

* Remember to use correct # of sig figs when reporting your answer!

* cancel units to ensure your answer has the correct units

Lecture Notes On Stoichiometry

United States. Bureau of Education

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the text 'United States. Bureau of Education'.

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Hu,2013-06-20 The book describes up to date applications and relevant theoretical results These applications come from various places but the most important one numerically speaking is the internet based educational system ALEKS The ALEKS system is bilingual English Spanish and covers all of mathematics from third grade to the end of high school and chemistry It is also widely used in higher education because US students are often poorly prepared when they reach the university level The chapter by Taagepera and Arasasingham deals with the application of knowledge spaces independent of ALEKS to the teaching of college chemistry The four chapters by Albert and his collaborators strive to give cognitive interpretations to the combinatoric structures obtained and used by the ALEKS system The contribution by Eppstein is technical and develops means of searching the knowledge structure efficiently Innovative Methods of Teaching and Learning Chemistry in Higher Education

Ingo Eilks,Bill Byers,2009 A unique publication from the ECTN giving a comprehensive overview of innovations in university chemistry teaching from a broad European perspective **Amphiboles** Frank C.

Hawthorne,Roberta Oberti,Giancarlo Della Ventura,Annibale Mottana,2018-12-17 Volume 67 of Reviews in Mineralogy and Geochemistry covers the Crystal Chemistry Occurrence and Health Issues of Amphiboles Contents Amphiboles Crystal Chemistry Classification of the Amphiboles New Amphibole Compositions Natural and Synthetic Long Range Order in Amphiboles Short Range Order in Amphiboles Non Ambient in situ Studies of Amphiboles The Synthesis and Stability of Some End Member Amphiboles The Significance of the Reaction Path in Synthesizing Single Phase Amphibole of Defined Composition Amphiboles in the Igneous Environment Metamorphic Amphiboles Composition and Coexistence Trace Element Partitioning Between Amphibole and Silicate Melt Amphiboles Environmental and Health Concerns Amphiboles Historical Perspective **Popular Science Monthly and World's Advance** ,1894 *The Popular Science Monthly* ,1894

Scientific Work of Morris Loeb, Formerly Professor of Chemistry and Director of the Havemeyer Chemical Laboratory at New York University Morris Loeb,1913 Report of the Commissioner of Education ,1891 **Report of the Commissioner of Education Made to the Secretary of the Interior for the Year ... with Accompanying Papers** United States. Bureau of Education,1891 **Annual Report of the Secretary of the Interior** United States. Dept. of the Interior,1891

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