



## Calculations of inorganic chemistry and qualitative analysis

By Alexander Smith

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1918 Excerpt: . . . These formulae represent the weights of equal volumes (22. 4 l. ), namely 36. 46 g. and 44 g. , respectively. Hence the former gas is a little lighter. Remembering that the G. M. V. of air weighs 28. 955 g. , we can compare the weight of any gas with that of air in the same way. Example 27. What are the relative weights of acetylene (C<sub>2</sub>H<sub>2</sub>) and sulphur dioxide SO<sub>2</sub> as compared with air The G. M. V. cube holds formula-weights of the first two, namely 26 g. and 64 g. , and 28. 955 g. of air. Hence acetylene is a little lighter than air, and sulphur dioxide more than twice as heavy. Applications: To Cases of Dissociation. Several gases or vapors yield smaller values for their densities, and therefore molecular weights, when the densities are measured at higher temperatures. This indicates...



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