



Elementary Chemistry for High Schools and Academies

By Albert Llewellyn Arey

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.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. 1900 Excerpt: .sodium is 23 times as heavy as the atom of hydrogen, a litre of sodium vapor is only 11.5 times as heavy as a litre of hydrogen. Hence, in a litre of sodium vapor there are only half as many atoms as there are in a litre of hydrogen. But according to Avogadro's law, the number of molecules in the litre of sodium vapor is the same as the number of molecules in the litre of hydrogen; therefore, there are only half as many atoms in a molecule of sodium as there are in a molecule of hydrogen. If the hydrogen molecule is diatomic, the sodium molecule is monatomic, and so also are the molecules of potassium, zinc, and cadmium. Similar reasoning shows that the molecules of phosphorus and arsenic have twice as many atoms as the molecule of hydrogen. If hydrogen is diatomic, these...



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