

GAS LAWS

AS EASY AS ABCD!

Avogadro's Law:

$$V = an, \text{ or } \frac{V_1}{n_1} = \frac{V_2}{n_2}$$

Boyle's Law:

$$PV = k, \text{ or } P_1V_1 = P_2V_2$$

Charles' Law:

$$V = bT, \text{ or } \frac{V_1}{T_1} = \frac{V_2}{T_2}$$

Dalton's Law:

$$P_{\text{TOTAL}} = P_1 + P_2 + P_3 \dots$$

IDEAL GAS LAW:

$$PV = nRT$$

$$R = \frac{0.08206 \text{ L} \cdot \text{atm}}{\text{K} \cdot \text{mol}}$$

Conversion
Factors

1 atm

= 760 mm Hg

= 760 torr

= 101325 Pa

= 101.325 kPa

= 1.01325 bar

= 29.92 in Hg

= 14.7 lb/in²

= 101325 N/m²

= pressure at
sea level

Chemistry Gas Laws Printouts

Lingsheng Yao



Chemistry Gas Laws Printouts:

Dictionary of Chemistry Andrew Hunt, 2014-04-08 This Dictionary provides an explanation of the main ideas of and concepts central to chemistry Each entry in this A Z resource begins with a clear one sentence definition that explains why the term is important These sentences are followed by a fuller explanation and where appropriate examples diagrams tables and equations Key terms such as inorganic chemistry organic chemistry physical chemistry the chemical industry and qualitative analysis tell the user about the main features of important aspects of chemistry with cross references leading to related terms in each field Other entries give a historical perspective showing in outline how important themes of chemistry have developed [1001 Best Internet Sites for Educators](#) Mark Treadwell, 2001-06 This second edition of a resource designed to help teachers find relevant information on the Internet for both themselves and their students provides concise reviews of more than 1 000 Web sites sorted by subject area Each site is evaluated with one to five stars for content presentation and grade level Easy to follow explanations are provided of how each site can be used in the classroom Also presented are search tips to help teacher find more sites on their own Besides the rating of Internet sites the book includes information on hardware and software requirements safety on the Internet plug ins and helpful information such as criteria for site selection and searching the Web An element called Finding Where You Have Been helps teachers relocate sites they have viewed Other helpful features are Searching the Web and a Glossary of Terms to familiarize teachers and students with the Internet The introductory material on Safety on the Internet provides guidelines for teachers A generic Acceptable Use Policy is also included that is copyright free for schools to adapt to their needs Recommendations for filtering software are offered for Internet use in places where individual monitoring is not possible such as libraries Data is provided on an Internet license system in which parents or caregivers sign an agreement for their child to access the Internet Sites are provided under the following curriculum areas language arts mathematics science foreign languages general and professional sites for educators health and physical education information and communication music and performing arts technology in education and visual arts AEF

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