

# CHEMISTRY MADE EASY - FUNCTIONALITY

for the TiNspire CAS – [www.TiNspireApps.com](http://www.TiNspireApps.com)

## Introduction

Density=Mass/Volume Solver  
Speed Of Light:  $E=m*c^2$   
Photon Energy:  $E=h*c/\lambda$   
Find Absolute Error and % Error  
Find Number of Significant Digits  
Add & Subtract using Significant Digits  
Multiply & Divide using Significant Digits  
Display Number using Significant Digits  
Read: 4 Rules on Significant Digits  
Convert: Normal to Scientific Notation & back

## Basics

Periodic Table of Elements: Symbol  
Periodic Table of Elements: Element Name  
Read: Polyatomic Ions Name  
Read: Compound Names  
pH Level Solver  
Acid Dissociation Constant Ka  
Henderson-Hasselbach Equation  
Heat Solver  $q=m*C*\Delta T$   
Hess Law  
Read: Reaction types  
Read: Useful Constants  
Read: Specific Heats

## Moles and more

Moles & Representative Particles  
Atoms to Moles Conversion  
Mass  
Density & Molar Mass

## Stoichiometry

Compound Mass: Step by Step  
Percent Composition: Step by Step  
Limiting & Excess Reagent: Step by Step  
Mole & Gram of Excess Reagent: Step by Step  
Theoretical & Percent Yield: Step by Step  
Balance Chemical Equations: Step by Step

Find Empirical Formula: Step by Step  
Find Molecular from Empirical Formula

Gas Laws

Volume of Gas

Boyle's Gas Law

Avogadro's Gas Law

Charles' Gas Law

GayLussac Gas Law

Combined Gas Law

Ideal Gas Law

Adiabatic Expansion of Ideal Gas Law

Gas Sum Law

Graham's Gas Law

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