



## Important Formulas of Current Efficiency and Resistance

#### Calculators!

Examples!

Conversions!

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### List of 15 Important Formulas of Current Efficiency and Resistance

# Important Formulas of Current Efficiency and Resistance 🖉











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#### Variables Used

- A Actual Mass Deposited (Gram)
- A Electrode Cross-sectional Area (Square Meter)
- **b** Cell Constant (1 per Meter)
- C Concentration of Electrolyte
- C.E Current Efficiency
- G Conductance (Mho)
- **i**p Electric Current (Ampere)
- K Kohlrausch Coefficient
- **k**conductance Specific Conductance (Siemens per Meter)
- K<sub>sp</sub> Solubility Product
- I Distance between Electrodes (Meter)
- **m** Molar Solubility (Mole per Liter)
- Mmetal Mass to be Deposited (Gram)
- m<sub>t</sub> Theoretical Mass Deposited (Gram)
- MW Molecular Weight (Gram)
- nf N Factor
- **R** Resistance (Ohm)
- **S** Solubility (Mole per Liter)
- **t** Time (Hour)
- Λ<sub>m</sub> Molar Conductivity (Siemens Square Meter per Mole)
- **A0m** Limiting Molar Conductivity (Siemens Square Meter per Mole)
- π Excess Osmotic Pressure (Atmosphere Technical)
- **π<sub>0</sub>** Ideal Pressure (Atmosphere Technical)

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- **p** Resistivity (Ohm Meter)
- **Φ** Osmotic Coefficient





#### **Constants, Functions, Measurements used**

- Constant: [Faraday], 96485.33212 Faraday constant
- Function: sqrt, sqrt(Number) A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.
- Measurement: Length in Meter (m) Length Unit Conversion
- Measurement: Weight in Gram (g)
  Weight Unit Conversion C
- Measurement: Time in Hour (h) Time Unit Conversion
- Measurement: Electric Current in Ampere (A) Electric Current Unit Conversion
- Measurement: Area in Square Meter (m<sup>2</sup>) Area Unit Conversion
- Measurement: Pressure in Atmosphere Technical (at)
  Pressure Unit Conversion
- Measurement: Electric Resistance in Ohm (Ω)
  Electric Resistance Unit Conversion
- Measurement: Electric Conductance in Mho (♂) Electric Conductance Unit Conversion ☑
- Measurement: Electric Resistivity in Ohm Meter (Ω\*m)
  Electric Resistivity Unit Conversion
- Measurement: Electric Conductivity in Siemens per Meter (S/m) Electric Conductivity Unit Conversion



- Measurement: Molar Concentration in Mole per Liter (mol/L) Molar Concentration Unit Conversion
- Measurement: Wave Number in 1 per Meter (1/m) Wave Number Unit Conversion
- Measurement: Molar Conductivity in Siemens Square Meter per Mole (S\*m<sup>2</sup>/mol)

Molar Conductivity Unit Conversion 🖸





#### Check other formula lists

- Activity of Electrolytes Formulas 🗖
- Concentration of Electrolyte Formulas 🔽
- **Conductance and Conductivity** Formulas C
- Electrochemical Cell Formulas 💁 Ionic Strength Formulas 🗹
- Electrolytes & lons Formulas
- **EMF of Concentration Cell** Formulas
- Equivalent Weight Formulas 🖸
- **Important Formulas of Activity** and Concentration of Electrolytes

- Important Formulas of Conductance
- Important Formulas of Current Efficiency and Resistance
- Important Formulas of Ionic Activity
- Osmotic Coefficient & Current Efficiency Formulas
- Resistance and Resistivity Formulas C
- Tafel Slope Formulas
- Temperature of Concentration Cell Formulas

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