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Ionic Bonding Formulas

Calculators! Examples! Conversions!

List of 42 Ionic Bonding Formulas

Ionic Bonding

1) Charge of Ion given Ionic Potential

Open Calculator

fx $q = \varphi \cdot r_{ionic}$

ex $0.3C = 300000V \cdot 10000A$

2) Ionic Potential

Open Calculator

fx $\varphi = \frac{q}{r_{ionic}}$

ex $300000V = \frac{0.3C}{10000A}$

3) Radius of Ion given Ionic Potential

Open Calculator

fx $r_{ionic} = \frac{q}{\varphi}$

ex $10000A = \frac{0.3C}{300000V}$

Lattice Energy

4) Born Exponent using Born Lande Equation

Open Calculator

fx $n_{born} = \frac{1}{1 - \frac{-U \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}{[\text{Avaga-no}] \cdot M \cdot \left([\text{Charge-e}]^2\right) \cdot z^+ \cdot z^-}}$

ex $0.992649 = \frac{1}{1 - \frac{-3500J/mol \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60A}{[\text{Avaga-no}] \cdot 1.7 \cdot \left([\text{Charge-e}]^2\right) \cdot 4C \cdot 3C}}$

5) Born Exponent using Born-Lande equation without Madelung Constant

Open Calculator

fx $$n_{born} = \frac{1}{1 - \frac{-U \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}{[\text{Avaga-no}] \cdot N_{ions} \cdot 0.88 \cdot \left([\text{Charge-e}]^2\right) \cdot z^+ \cdot z^-}}$$

ex $$0.992897 = \frac{1}{1 - \frac{-3500\text{J/mol} \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60\text{A}}{[\text{Avaga-no}] \cdot 2 \cdot 0.88 \cdot \left([\text{Charge-e}]^2\right) \cdot 4\text{C} \cdot 3\text{C}}}$$

6) Born Exponent using Repulsive Interaction

Open Calculator

fx $$n_{born} = \frac{\log 10\left(\frac{B}{E_R}\right)}{\log 10}(r_0)$$

ex $$0.992644 = \frac{\log 10\left(\frac{40000}{5.8\text{E\^{}12J}}\right)}{\log 10}(60\text{A})$$

7) Constant depending on compressibility using Born-Mayer equation

Open Calculator

fx $$\rho = \left(\left(\frac{U \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}{[\text{Avaga-no}] \cdot M \cdot z^+ \cdot z^- \cdot \left([\text{Charge-e}]^2\right)}\right) + 1\right) \cdot r_0$$

ex $$60.44435\text{A} = \left(\left(\frac{3500\text{J/mol} \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60\text{A}}{[\text{Avaga-no}] \cdot 1.7 \cdot 4\text{C} \cdot 3\text{C} \cdot \left([\text{Charge-e}]^2\right)}\right) + 1\right) \cdot 60\text{A}$$

8) Electrostatic Potential Energy between pair of Ions

Open Calculator

fx $$E_{Pair} = \frac{-(q^2) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}$$

ex $$\text{-3.5E\^{}-21J} = \frac{-\left((0.3C)^2\right) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60A}$$

9) Lattice Energy using Born Lande Equation

Open Calculator

fx $$U = -\frac{[\text{Avaga-no}] \cdot M \cdot z^+ \cdot z^- \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{1}{n_{born}}\right)\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}$$

ex $$3523.343\text{J/mol} = -\frac{[\text{Avaga-no}] \cdot 1.7 \cdot 4C \cdot 3C \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{1}{0.9926}\right)\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60A}$$

10) Lattice Energy using Born-Lande equation using Kapustinskii Approximation

Open Calculator

fx $$U = -\frac{[\text{Avaga-no}] \cdot N_{ions} \cdot 0.88 \cdot z^+ \cdot z^- \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{1}{n_{born}}\right)\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}$$

ex $$3647.696\text{J/mol} = -\frac{[\text{Avaga-no}] \cdot 2 \cdot 0.88 \cdot 4C \cdot 3C \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{1}{0.9926}\right)\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60A}$$

11) Lattice Energy using Born-Mayer equation

fx Open Calculator

$$U = \frac{-[\text{Avaga-no}] \cdot M \cdot z^{+} \cdot z^{-} \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{\rho}{r_0}\right)\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}$$

ex
$$3465.763\text{J/mol} = \frac{-[\text{Avaga-no}] \cdot 1.7 \cdot 4\text{C} \cdot 3\text{C} \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{60.44\text{A}}{60\text{A}}\right)\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60\text{A}}$$

12) Lattice Energy using Kapustinskii equation

fx Open Calculator

$$U_{\text{Kapustinskii}} = \frac{1.20200 \cdot \left(10^{-4}\right) \cdot N_{\text{ions}} \cdot z^{+} \cdot z^{-} \cdot \left(1 - \left(\frac{3.45 \cdot \left(10^{-11}\right)}{R_c + R_a}\right)\right)}{R_c + R_a}$$

ex
$$246889\text{J/mol} = \frac{1.20200 \cdot \left(10^{-4}\right) \cdot 2 \cdot 4\text{C} \cdot 3\text{C} \cdot \left(1 - \left(\frac{3.45 \cdot \left(10^{-11}\right)}{65\text{A} + 51.5\text{A}}\right)\right)}{65\text{A} + 51.5\text{A}}$$

13) Lattice Energy using Lattice Enthalpy

fx Open Calculator

$$U = \Delta H - \left(p_{LE} \cdot V_{m\_LE}\right)$$

ex
$$3500\text{J/mol} = 21420\text{J/mol} - \left(800\text{Pa} \cdot 22.4\text{m}^3\text{/mol}\right)$$

14) Lattice Energy using Original Kapustinskii equation

fx Open Calculator

$$U_{\text{Kapustinskii}} = \frac{\left(\left(\frac{[\text{Kapustinskii\_C}]}{1.20200}\right) \cdot 1.079\right) \cdot N_{\text{ions}} \cdot z^{+} \cdot z^{-}}{R_c + R_a}$$

ex
$$222283.3\text{J/mol} = \frac{\left(\left(\frac{[\text{Kapustinskii\_C}]}{1.20200}\right) \cdot 1.079\right) \cdot 2 \cdot 4\text{C} \cdot 3\text{C}}{65\text{A} + 51.5\text{A}}$$

15) Lattice Enthalpy using Lattice Energy

Open Calculator

$$\Delta H = U + (p_{LE} \cdot V_{m\_LE})$$

$$21420\text{J/mol} = 3500\text{J/mol} + (800\text{Pa} \cdot 22.4\text{m}^3\text{/mol})$$

16) Minimum Potential Energy of Ion

Open Calculator

$$E_{min} = \left(\frac{-(q^2) \cdot \left([\text{Charge-e}]^2 \right) \cdot M}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0} \right) + \left(\frac{B}{r_0^{n} - \{born\}} \right)$$

$$5.8\text{E\^{}}12\text{J} = \left(\frac{-\left((0.3\text{C})^2 \right) \cdot \left([\text{Charge-e}]^2 \right) \cdot 1.7}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60\text{A}} \right) + \left(\frac{40000}{(60\text{A})^{0.9926}} \right)$$

17) Number of Ions using Kapustinskii Approximation

Open Calculator

$$N_{ions} = \frac{M}{0.88}$$

$$1.931818 = \frac{1.7}{0.88}$$

18) Outer Pressure of Lattice

Open Calculator

$$p_{LE} = \frac{\Delta H - U}{V_{m\_LE}}$$

$$800\text{Pa} = \frac{21420\text{J/mol} - 3500\text{J/mol}}{22.4\text{m}^3\text{/mol}}$$

19) Repulsive Interaction

Open Calculator

$$E_R = \frac{B}{r_0^n \_ \{born\}}$$

$$5.8E\hat{}12J = \frac{40000}{(60A)^{0.9926}}$$

20) Repulsive Interaction Constant

Open Calculator

$$B = E_R \cdot (r_0^n \_ \{born\})$$

$$40033.26 = 5.8E\hat{}12J \cdot \left((60A)^{0.9926}\right)$$

21) Repulsive Interaction Constant given Madelung constant

Open Calculator

$$B_M = \frac{M \cdot (q^2) \cdot \left([Charge\text{-}e]^2\right) \cdot \left(r_0^{n_{born}-1}\right)}{4 \cdot \pi \cdot [Permitivity\text{-}vacuum] \cdot n_{born}}$$

$$4.1E\hat{}\text{-}29 = \frac{1.7 \cdot \left((0.3C)^2\right) \cdot \left([Charge\text{-}e]^2\right) \cdot \left((60A)^{0.9926-1}\right)}{4 \cdot \pi \cdot [Permitivity\text{-}vacuum] \cdot 0.9926}$$

22) Repulsive Interaction Constant given Total Energy of Ion and Madelung Energy

Open Calculator

$$B = (E_{total} - (E_M)) \cdot (r_0^n \_ \{born\})$$

$$39964.23 = (5.79E\hat{}12J - (\text{-}5.9E\hat{}\text{-}21J)) \cdot \left((60A)^{0.9926}\right)$$

23) Repulsive Interaction Constant using Total Energy of Ion

Open Calculator

fx

$$B = \left(E_{total} - \left(-\frac{M \cdot (q^2) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}\right)\right) \cdot (r_0^n - \{born\})$$

ex

$$39964.23 = \left(5.79E\hat{}12J - \left(-\frac{1.7 \cdot \left((0.3C)^2\right) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60A}\right)\right) \cdot \left((60A)^{0.9926}\right)$$

24) Repulsive Interaction using Total Energy of Ion

Open Calculator

fx $$E_R = E_{total} - (E_M)$$

ex $$5.8E\hat{}12J = 5.79E\hat{}12J - (\text{-}5.9E\hat{}\text{-}21J)$$

25) Repulsive Interaction using Total Energy of ion given charges and distances

Open Calculator

fx $$E_R = E_{total} - \frac{-(q^2) \cdot \left([\text{Charge-e}]^2\right) \cdot M}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}$$

ex $$5.8E\hat{}12J = 5.79E\hat{}12J - \frac{-\left((0.3C)^2\right) \cdot \left([\text{Charge-e}]^2\right) \cdot 1.7}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60A}$$

26) Total Energy of Ion given Charges and Distances

Open Calculator

fx
$$E_{total} = \left(\frac{-(q^2)\cdot\left([\text{Charge-e}]^2\right)\cdot M}{4\cdot\pi\cdot[\text{Permitivity-vacuum}]\cdot r_0}\right) + \left(\frac{B}{r_0^n\_\{born\}}\right)$$

ex
$$5.8E\hat{\ }12J = \left(\frac{-\left((0.3C)^2\right)\cdot\left([\text{Charge-e}]^2\right)\cdot 1.7}{4\cdot\pi\cdot[\text{Permitivity-vacuum}]\cdot 60A}\right) + \left(\frac{40000}{(60A)^{0.9926}}\right)$$

27) Total Energy of Ion in Lattice

Open Calculator

fx
$$E_{total} = E_M + E_R$$

ex
$$5.8E\hat{\ }12J = \text{-}5.9E\hat{\ }\text{-}21J + 5.8E\hat{\ }12J$$

28) Volume change of lattice

Open Calculator

fx
$$V_{m\_LE} = \frac{\Delta H - U}{p_{LE}}$$

ex
$$22.4m^3/mol = \frac{21420J/mol - 3500J/mol}{800Pa}$$

Distance of Closest Approach

29) Distance of Closest Approach using Born Lande equation

Open Calculator

fx
$$r_0 = -\frac{[\text{Avaga-no}]\cdot M\cdot z^+\cdot z^-\cdot\left([\text{Charge-e}]^2\right)\cdot\left(1-\left(\frac{1}{n_{born}}\right)\right)}{4\cdot\pi\cdot[\text{Permitivity-vacuum}]\cdot U}$$

ex
$$60.40016A = -\frac{[\text{Avaga-no}]\cdot 1.7\cdot 4C\cdot 3C\cdot\left([\text{Charge-e}]^2\right)\cdot\left(1-\left(\frac{1}{0.9926}\right)\right)}{4\cdot\pi\cdot[\text{Permitivity-vacuum}]\cdot 3500J/mol}$$

30) Distance of Closest Approach using Born-Lande Equation without Madelung Constant

Open Calculator

$$r_0 = -\frac{[\text{Avaga-no}] \cdot N_{ions} \cdot 0.88 \cdot z^{+} \cdot z^{-} \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{1}{n_{born}}\right)\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot U}$$

ex
$$62.53193A = -\frac{[\text{Avaga-no}] \cdot 2 \cdot 0.88 \cdot 4C \cdot 3C \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{1}{0.9926}\right)\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 3500J/mol}$$

31) Distance of Closest Approach using Electrostatic Potential

Open Calculator

$$r_0 = \frac{-\left(q^2\right) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot E_{Pair}}$$

ex
$$59.35292A = \frac{-\left((0.3C)^2\right) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot \text{-3.5E\^{}-21J}}$$

32) Distance of Closest Approach using Madelung Energy

Open Calculator

$$r_0 = -\frac{M \cdot \left(q^2\right) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot E_M}$$

ex
$$59.85591A = -\frac{1.7 \cdot \left((0.3C)^2\right) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot \text{-5.9E\^{}-21J}}$$

Madelung Constant

33) Madelung Constant given Repulsive Interaction Constant

Open Calculator

fx $$M = \frac{B_M \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot n_{born}}{(q^2) \cdot \left([\text{Charge-e}]^2\right) \cdot \left(r_0^{n_{born}-1}\right)}$$

ex $$1.702967 = \frac{4.1E\hat{}\text{-}29 \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 0.9926}{\left((0.3C)^2\right) \cdot \left([\text{Charge-e}]^2\right) \cdot \left((60A)^{0.9926-1}\right)}$$

34) Madelung Constant using Born Lande Equation

Open Calculator

fx $$M = \frac{-U \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}{\left(1 - \left(\frac{1}{n_{born}}\right)\right) \cdot \left([\text{Charge-e}]^2\right) \cdot [\text{Avaga-no}] \cdot z^+ \cdot z^-}$$

ex $$1.688737 = \frac{-3500J/mol \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60A}{\left(1 - \left(\frac{1}{0.9926}\right)\right) \cdot \left([\text{Charge-e}]^2\right) \cdot [\text{Avaga-no}] \cdot 4C \cdot 3C}$$

35) Madelung Constant using Born-Mayer equation

Open Calculator

fx $$M = \frac{-U \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}{[\text{Avaga-no}] \cdot z^+ \cdot z^- \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{\rho}{r_0}\right)\right)}$$

ex $$1.716794 = \frac{-3500J/mol \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60A}{[\text{Avaga-no}] \cdot 4C \cdot 3C \cdot \left([\text{Charge-e}]^2\right) \cdot \left(1 - \left(\frac{60.44A}{60A}\right)\right)}$$

36) Madelung Constant using Kapustinskii Approximation

Open Calculator

fx $$M = 0.88 \cdot N_{ions}$$

ex $$1.76 = 0.88 \cdot 2$$

37) Madelung Constant using Madelung Energy

Open Calculator

fx $$M = \frac{-(E_M) \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}{(q^2) \cdot \left([\text{Charge-e}]^2\right)}$$

ex $$1.704092 = \frac{-(\text{-5.9E\^{}-21J}) \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60\text{A}}{\left((0.3\text{C})^2\right) \cdot \left([\text{Charge-e}]^2\right)}$$

38) Madelung Constant using Total Energy of Ion

Open Calculator

fx $$M = \frac{\left(E_{tot} - \left(\frac{B_M}{r_0^n\_\{born\}}\right)\right) \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}{-(q^2) \cdot \left([\text{Charge-e}]^2\right)}$$

ex $$1.695387 = \frac{\left(\text{7.02E\^{}-23J} - \left(\frac{\text{4.1E\^{}-29}}{(60\text{A})^{0.9926}}\right)\right) \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60\text{A}}{-\left((0.3\text{C})^2\right) \cdot \left([\text{Charge-e}]^2\right)}$$

39) Madelung Constant using Total Energy of Ion given Repulsive Interaction

Open Calculator

fx $$M = \frac{(E_{tot} - E) \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}{-(q^2) \cdot \left([\text{Charge-e}]^2\right)}$$

ex $$1.692481 = \frac{(\text{7.02E\^{}-23J} - \text{5.93E\^{}-21J}) \cdot 4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60\text{A}}{-\left((0.3\text{C})^2\right) \cdot \left([\text{Charge-e}]^2\right)}$$

40) Madelung Energy

Open Calculator

fx $$E_M = -\frac{M \cdot (q^2) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot r_0}$$

ex $$\text{-5.9E\^{}-21J} = -\frac{1.7 \cdot \left((0.3C)^2\right) \cdot \left([\text{Charge-e}]^2\right)}{4 \cdot \pi \cdot [\text{Permitivity-vacuum}] \cdot 60A}$$

41) Madelung Energy using Total Energy of Ion

Open Calculator

fx $$E_M = E_{tot} - E$$

ex $$\text{-5.9E\^{}-21J} = \text{7.02E\^{}-23J} - \text{5.93E\^{}-21J}$$

42) Madelung Energy using Total Energy of Ion given Distance

Open Calculator

fx $$E_M = E_{tot} - \left(\frac{B_M}{r_0^n \_ \{born\}}\right)$$

ex $$\text{-5.9E\^{}-21J} = \text{7.02E\^{}-23J} - \left(\frac{\text{4.1E\^{}-29}}{(60A)^{0.9926}}\right)$$

Variables Used

- **B** Repulsive Interaction Constant
- **B_M** Repulsive Interaction Constant given M
- **E** Repulsive Interaction between Ions *(Joule)*
- **E_M** Madelung Energy *(Joule)*
- **E_{min}** Minimum Potential Energy of Ion *(Joule)*
- **E_{Pair}** Electrostatic Potential Energy between Ion Pair *(Joule)*
- **E_R** Repulsive Interaction *(Joule)*
- **E_{tot}** Total energy of Ion in an Ionic Crystal *(Joule)*
- **E_{total}** Total Energy of Ion *(Joule)*
- **M** Madelung Constant
- **n_{born}** Born Exponent
- **N_{ions}** Number of Ions
- **p_{LE}** Pressure Lattice Energy *(Pascal)*
- **q** Charge *(Coulomb)*
- **r_0** Distance of Closest Approach *(Angstrom)*
- **R_a** Radius of Anion *(Angstrom)*
- **R_c** Radius of Cation *(Angstrom)*
- **r_{ionic}** Ionic Radius *(Angstrom)*
- **U** Lattice Energy *(Joule per Mole)*
- **$U_{Kapustinskii}$** Lattice Energy for Kapustinskii Equation *(Joule per Mole)*
- **V_{m_LE}** Molar Volume Lattice Energy *(Cubic Meter per Mole)*
- **z^-** Charge of Anion *(Coulomb)*
- **z^+** Charge of Cation *(Coulomb)*
- **ΔH** Lattice Enthalpy *(Joule per Mole)*
- **ρ** Constant Depending on Compressibility *(Angstrom)*
- **φ** Ionic Potential *(Volt)*

Constants, Functions, Measurements used

- Constant: **pi**, 3.14159265358979323846264338327950288
  Archimedes' constant
- Constant: **[Avaga-no]**, 6.02214076E23
  Avogadro's number
- Constant: **[Charge-e]**, 1.60217662E-19 Coulomb
  Charge of electron
- Constant: **[Kapustinskii_C]**, 1.20200×10−4 Joule Meter / Mole
  Kapustinskii constant
- Constant: **[Permitivity-vacuum]**, 8.85E-12 Farad / Meter
  Permittivity of vacuum
- Function: **log10**, log10(Number)
  Common logarithm function (base 10)
- Measurement: **Length** in Angstrom (A)
  Length Unit Conversion
- Measurement: **Pressure** in Pascal (Pa)
  Pressure Unit Conversion
- Measurement: **Energy** in Joule (J)
  Energy Unit Conversion
- Measurement: **Electric Charge** in Coulomb (C)
  Electric Charge Unit Conversion
- Measurement: **Electric Potential** in Volt (V)
  Electric Potential Unit Conversion
- Measurement: **Molar Magnetic Susceptibility** in Cubic Meter per Mole (m^3/mol)
  Molar Magnetic Susceptibility Unit Conversion
- Measurement: **Molar Enthalpy** in Joule per Mole (J/mol)
  Molar Enthalpy Unit Conversion

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