



Cationic and Anionic Salt Hydrolysis Formulas

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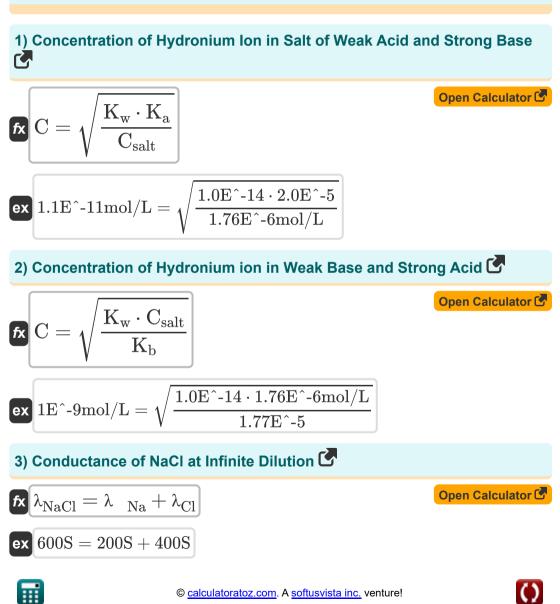




List of 13 Cationic and Anionic Salt Hydrolysis Formulas

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Cationic and Anionic Salt Hydrolysis 🕑



4) Degree of Hydrolysis in Salt of Weak Acid and Strong Base 🕑

fx
$$h = \sqrt{\frac{K_w}{K_a \cdot C_{salt}}}$$

ex $0.000533 = \sqrt{\frac{1.0E^{-14}}{2.0E^{-5} \cdot 1.76E^{-6}mol/L}}$

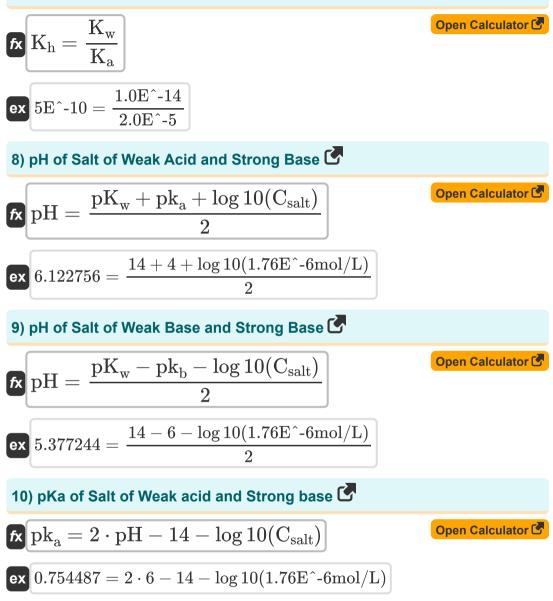
5) Degree of Hydrolysis in Salt of Weak Base and Strong Base

6) Hydrolysis Constant in Strong Acid and Weak Base 🕑

fx
$$K_{\rm h}=rac{K_{\rm w}}{K_{\rm b}}$$
 Open Calculator P $m ex$ $5.6E^{-10}=rac{1.0E^{-14}}{1.77E^{-5}}$



7) Hydrolysis Constant in Weak Acid and Strong Base 🗹





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11) pKb of Salt of Strong Acid and Weak base
 Image: Constraint of Strong Acid and Weak base
 Image: Constraint of Strong Base and Ucesset

 ix

$$pk_b = 14 - (2 \cdot pH) - \log 10(C_{salt})$$
 Open Calculator Image: Constraint of Strong Base and Weak Acid Image: Constraint of Con



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Variables Used

- **C** Hydronium Ion Concentration (*Mole per Liter*)
- Csalt Concentration of Salt (Mole per Liter)
- h Degree of Hydrolysis
- Ka Constant of Ionization of Acids
- K_b Constant Of Ionization Of Bases
- K_h Constant Of Hydrolysis
- K_w Ionic Product of Water
- pH Negative Log of Hydronium Concentration
- pka Negative Log of Acid Ionization Constant
- pkb Negative Log of Base Ionization Constant
- pK_w Negative Log of Ionic Product of Water
- pOH Negative Log of Hydroxyl Concentration
- λ_{Na} Conductance of Na Cation (Siemens)
- λ_{CI} Conductance of CI Anion (Siemens)
- λ_{NaCl} Conductance of NaCl at Infinite Dilution (Siemens)



Constants, Functions, Measurements used

- Function: log10, log10(Number) Common logarithm function (base 10)
- Function: **sqrt**, sqrt(Number) Square root function
- Measurement: Electric Conductance in Siemens (S) Electric Conductance Unit Conversion
- Measurement: Molar Concentration in Mole per Liter (mol/L) Molar Concentration Unit Conversion



Check other formula lists

- Cationic and Anionic Salt Hydrolysis Formulas
- Hydrolysis for Weak Acid and Weak Base Formulas

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