Calculate the percentage by mass of the indicated element in the following compounds: -Hydrogen in ammonium sulfate.

-Chlorine in chlorous acid.

-Carbon in calcium hydrogen carbonate.

Solution.

1) w(H) = Ar(H)×8/Mr((NH₄)₂SO₄) = 8/132 × 100% = 6.06% 2) w(Cl) = Ar(Cl)/Mr((HClO₂) = 35.5/68.5 × 100% = 51.82% 3) w(C) = Ar(C)×2/Mr(Ca(HCO₃)₂) = 12×2/162 × 100% = 24/162 × 100% = 14.81%

Answer: 1) w(H) = 6.06% 2) w(Cl) = 51.82% 3) w(C) = 14.81%

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