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Where CH0 Is The Heat Of Combustion Of Benzoic Acid (given As -6318 Cal G), M Is The Mass Of The Benzoic Acid Sample (0.9799 G), E 3 Is The Heat Of Combustion Of The Wire (calculable From The Heat Of Combustion Of The Wire, -2.3 Cal Cm And The Length Of The Wire, 15.1 Cm), And T Is The Previously Calculated Temperature Rise, 2.77252 C . Combining Jun 5th, 2024

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 $\Delta T$  = Change In Temperature Of The Solution = T Final T Initial In This Experiment Mass Of The Solution Will Be Calculated Using The Volume Of The Solution And Its Density (assumed To Be 0.997 G ML-1) Heat Of Neutralization Is The Same Value As Q Soln But With The Opposite Sign. The Solution Is Absorbing Heat So Q Soln Is Positive. Jun 7th, 2024

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The Increase In Temperature Be? We Are Given Both The Number Of Moles Of Compound And The Molar Heat Of Combustion So By Multiplying Them Together We Can Find The Heat Generated. (0.875 Mol)(1350 KJ/mol) = 1180 KJ = 118000 J Plug This Value Into Our Equation And Then Rearrange To Find The Change In The Apr 7th, 2024

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1. Using The Graduated Cylinder, Obtain 50 ML Of Water And Carefully Pour It Into The Soda Can. 2. Determine The Mass Of Water And The Can. Record The Mass Of Water In The Data Table (hint: Density Of Water = 1 G/mL). 3. Hold The Paper Clip Horizontally And Bend The Outer End Upwards Until Mar 20th, 2024

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