Lab Report: Qualitative Analysis of Everyday Chemicals

Analysis of Everyday Chemicals

Record your results from procedural steps 1 – 3 in the table below. If a test is not performed on a substance, leave that space blank, or write N/A (not applicable).

<table>
<thead>
<tr>
<th>Household chemicals</th>
<th>Soluble in H₂O</th>
<th>Forms ppt with NH₃</th>
<th>pH</th>
<th>Reacts with Vinegar</th>
<th>Reacts with iodine</th>
<th>Conducts e- current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table salt</td>
<td></td>
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<tr>
<td>Sugar</td>
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<tr>
<td>Epsom salt</td>
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<tr>
<td>Alum</td>
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<tr>
<td>Photographic fixer</td>
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<tr>
<td>Cornstarch</td>
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<tr>
<td>Aquarium sand</td>
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<tr>
<td>Chalk</td>
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<tr>
<td>Baking soda</td>
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<tr>
<td>Washing soda</td>
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</tbody>
</table>
Flow Chart

Use your results from the preceding table and the following legend to complete the flow chart.

<table>
<thead>
<tr>
<th>Name</th>
<th>photo</th>
<th>baking soda</th>
<th>washing soda</th>
<th>table salt</th>
<th>sugar</th>
<th>epsom salt</th>
<th>alum</th>
<th>corn starch</th>
<th>sand</th>
<th>chalk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legend</td>
<td>pf</td>
<td>bs</td>
<td>ws</td>
<td>ts</td>
<td>su</td>
<td>es</td>
<td>al</td>
<td>cs</td>
<td>sa</td>
<td>ch</td>
</tr>
</tbody>
</table>

---10 Everyday Chemicals---

Water

soluble

---

cools when dissolved

NH₄OH

fizzes

no fizz

NH₄OH

ppt

no ppt

milky gelatinous

pH test

basic

not basic

more basic

less basic

I₂/H₂O

does not decolorize

decolorizes

conductivity test

conducts

does not
Analysis of an Unknown Chemicals

Record all the reagents used, your observations, and your conclusions about the identity of each unknown analyzed in the table below.

<table>
<thead>
<tr>
<th>Unknown #</th>
<th>Test reagent(s) used</th>
<th>Observations</th>
<th>Identity of Unknown</th>
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