



LST Heavy Liquid and pH

Full strength LST Heavy Liquid is mildly acidic (pH 3.3-3.8) and will react with alkaline contaminants. A significant change in the pH of the Heavy Liquid will alter its chemistry and physical properties.

The pH of full strength LST Heavy Liquid should be in the range pH 3-4. Unfortunately, measuring the pH of full strength LST Heavy Liquid can be difficult because the concentrated solution causes a drift in the pH probe.

However, it is possible to obtain steady readings by diluting the LST Heavy Liquid to be tested. Diluted samples cause minimal drift and less depression of the probe's readings.

The following is our recommended procedure for measuring pH.

- Accurately dilute the LST Heavy Liquid in a 9:1 ratio. For example, transfer 10 mL of LST Heavy Liquid into a 100 mL volumetric flask and make up to the mark. Make sure the solution is well mixed in the volumetric flask.
- Pour a sample from the previously diluted LST Heavy Liquid and measure the pH with a calibrated pH meter.

If the diluted sample is in the range pH 4.1 - 4.8, the LST Heavy Liquid is within normal operating parameters.

If the pH of the diluted liquid is lower than 4.1, or higher than 4.8, please contact Central Chemical Consulting, or else replace the LST Heavy Liquid with new stock.