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Determination of relationship between pH and acid loading in gas treatment plant (amine unit)

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A method for determining the concentration of acid-gases in an amine-regeneration system, such as is typically found in a natural gas refining plant or in this case: Acid gas coming from middle conversion, having a device for measuring the pH of the system from which the concentration of the acid-gases complexed and the amine can be calculated using an empirically-derived relationship between acid-gas concentration and pH. The research also includes a system for controlling amine regeneration based upon the above described determining method. In the above graph you will see the lean amine pH Vs. Total Acid loading. This area dominated by the balance between the neutralization of H₂S, CO₂ capture and reaction of the amine as alkaline species can be predicted and the close relationship it has with the pH of the solution and acid loading.

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