

Quantification of Heat Stable Salt Anions

- High sensitivity
- Simultaneous analysis of multiple ions, improving efficiency
- Precise quantification, even at low concentrations
- Ability to handle complex sample matrices with minimal preparation

Heat stable salts (HSS) in the solution reduce the amount of amine available for gas treatment, thereby reducing the unit's productivity. HSS also cause corrosion problems and lead to a higher foaming tendency of the solution. Foaming in the absorber columns, higher amine losses, absorber tower plug gage, heat exchanger fouling, shortened amine filter life, and overall unit instability, affect performance of the sulfur recovery unit. Removal of the HSS from the circulating amine will help to improve the performance of the amine unit, decrease maintenance and filter replacement costs, and foaming. Heat Stable Salts (HSSs) are contaminants that can have a significant effect on the performance of amine solvents.

HSS analyser is a specialized instrument designed to detect and quantify various heat stable salt's anions.

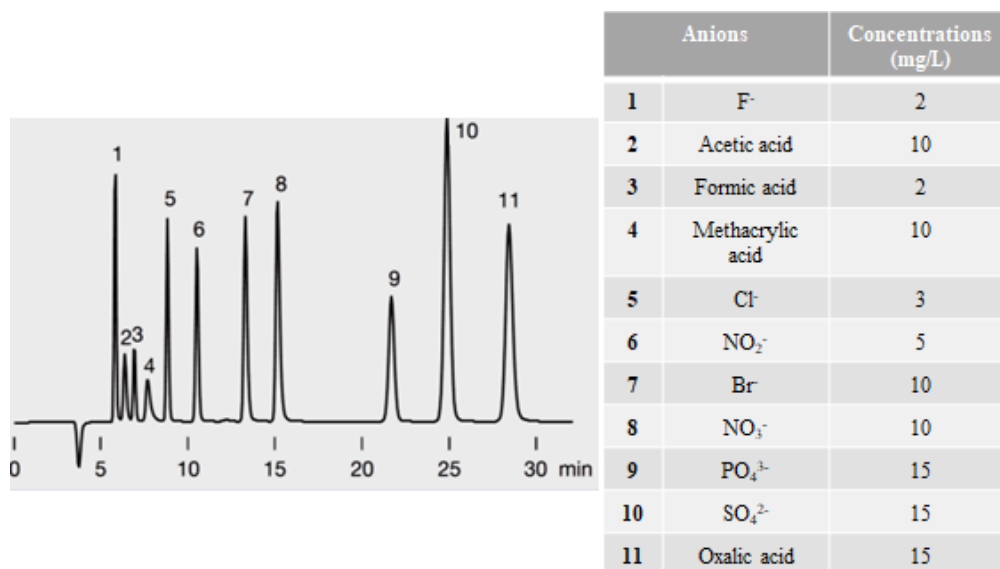


Fig.1 Heat stable amine salt anions analysis using conductivity measurements

