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Determination of H₂S in amine solutions using liquid gas chromatography

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A method for the analysis of natural sour and sweet gas and H₂S in MDEA Solution that is much more important for use in routine quality control analyses in gas treatment plant has been developed. A Flame ionized detector (FID) is used for natural gas hydrocarbons C1 until C6+ and thermal conductivity detector is used for the determination of H₂S in both Amine (Rich and Lean) also in natural gas (Sweet and Sour). In this method we are programmed the system with capillary column and temperature, C6 and higher hydrocarbons in a short column section that can be disconnected during the analysis with reversing carrier gas action, a rapid and accurate analysis can be carried out by back-flushing.

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