

Pendant Drop Contact Angle and IFT Measurement

CA-ES20



Description:


Interfacial tension (IFT), as an indicator of energy at the interface of two immiscible fluids, is a crucial parameter for any Enhanced Oil Recovery (EOR) process. Drop shape analysis, specifically the pendant drop method, provides a convenient way to measure surface tension. Pendant drop tensiometry, enhanced by video-image analysis, is considered a highly accurate method for measuring the IFT of fluid/fluid interfaces across a wide range of IFT values. In this method, video images of pendant drops are digitized to determine the interface loci, enabling the measurement of IFT through the solution of the Young-Laplace equation. The wettability of the reservoir rock and interfacial tensions between reservoir fluids play a crucial role in oil recovery efficiency.


Technical Specification:

- IFT range: 3-72 mN/m
- Contact angle range: 5°-179°
- Working pressure: Ambient
- Online special software for analyzing the shape of the drop to measure IFT and contact angle in liquid-liquid systems
- Maximum working temperature: 50 °C (not suitable for volatile solvents)
- Three degrees of freedom camera positioner
- Automatic control of moving parts
- Glass visual cell
- Digital camera 200x
- Backlight



Shiraz Technology Park of Chemical Industries, Industrial Estate, Shiraz, Iran

 Tel No: +98 7137744659

 Phone No: +98 9177106084

 Email: eortech.official@gmail.com

 Website: fet-co.com