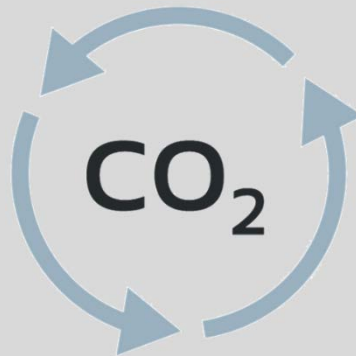


CCS/CCU FLUID CHARACTERISATION

Thermodynamic and Transport Properties of CCS/CCU Fluids



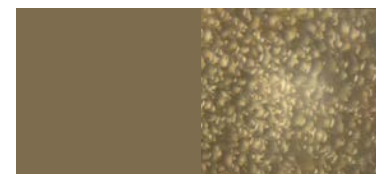


CCS/CCU FLUID PROPERTIES

At FluidicsLab, we redefine how CCS/CCU (carbon capture, utilisation and storage) fluid streams are characterised. Our technology is faster, highly accurate and requires less fluid volume than conventional testing methods. This ultimately cuts cost and time to field implementation and helps our customers to outperform.

DE-RISK YOUR CCS/CCU PROJECTS

Understanding phase behavior is crucial across the CCS/CCU value chain. In the presence of impurities such as water and/or alcohol, flow assurance issues and corrosion may occur. Water solubility in CO₂ may cause the drying of CO₂ wells. FluidicsLab has the technology to prepare complex CCS/CCU fluids with impurities such as H₂O, TEG, or Methanol at varying ppm levels. Dew point, volume and composition of flashed liquids are determined using microfluidics technology, and density and viscosity of CCS/CCU fluid streams are measured.

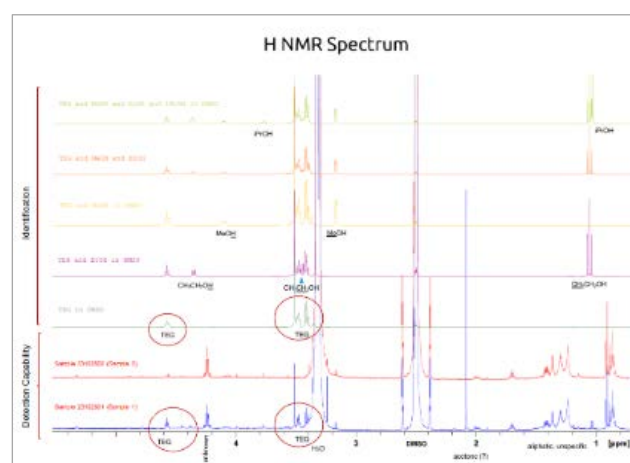


NMR Spectrum / Visual detection of liquid dropout from CCS/CCU fluid

YOUR BENEFITS

FluidicsLab is specialised in complex CCS/CCU streams:

- ▮ Preparation of complex gas mixtures (CO₂, H₂ and more)
- ▮ Including impurities such as H₂O, TEG, Methanol and more
- ▮ CCS/CCU fluid composition
- ▮ Dew point pressures (phase envelope)
- ▮ Volume and composition of flashed liquid and quality lines
- ▮ CCS/CCU fluid viscosity and density



Compositional Analysis of CCS/CCU Streams

Contact us today and talk to one of our fluidic experts!

fluidicslab@hoteng.com | fluidicslab.com