

Materials List for:

Measurement of the Rheology of Crude Oil in Equilibrium with CO₂ at Reservoir Conditions

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Materials

Name	Company	Catalog Number	Comments
Heavy Crude Oil	Shell	N/A	Produced from the Zuata oil field. Used without further treatment
Toluene	Sigma-Aldrich	244511-2L	Anhydrous, 99.8%. Used without further treatment
CO ₂	BOC	111304-F	CP Grade. Used without further treatment
Name	Company	Catalog Number	Comments
Syringe Pump	Teledyne ISCO	65D	
Mixer	Parr Instruments	4651	Vessel volume 250 mL. Mounted on a series 4923EE bench-top heater
Gear Pump 1	Polymer Systems Inc.	CIP-12/1.5	Used with CC29/Pr pressure cell for high viscosity fluids.
Gear Pump 2	Micropump	GAH X21	Used with DG35.12/Pr pressure cell for low viscosity fluids.
Rheometer	Anton Paar	MCR301	
Pressure cell 1	Anton Paar	CC29/Pr	With flow-through configuration. Used for high viscosity fluids. Coaxial cylinder geometry
Pressure cell 2	Anton Paar	DG35.12/Pr	With flow-through configuration. Used for low viscosity fluids. Double gap geometry