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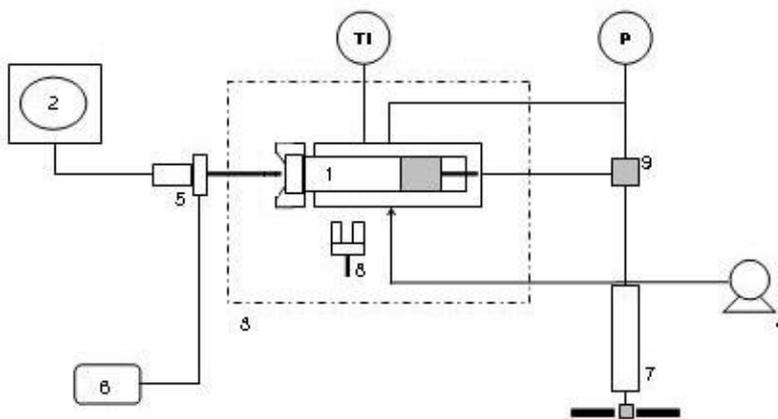
Measurement and Correlation of Phase Equilibria Property of Polymer Solution

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 .
 .[1]
 가 (variable-volume view cell)
 354K 493K 1MPa 24MPa , (cloud
 point) .[2]
 Polyisobutylene Polyethylene . Zeman et al.[3]
 n-hexane n-pentane
 MF-NLF
 (MultiFluid approximation Nonrandom Lattice Theory)
 .[4]

1. PIB (Polyisobutylene; Mw = 1,000,000., Mv = 1,200,000., Mn = 600,000), PE (Polyethylene; Mw = 125,000) . Aldrich
 n-pentane(HPLC grade, 99.5% purity), n-hexane(HPLC grade, 99.5% purity)
2. 1 (stainless steel-316)
 , 33ml 가
 (magnetic stirrer)

가 (heating band) ±0.1°C
 Pt-100
 Varcom ±0.02 MPa
 (Model NO. 550.0202.1; 2,000 bar) NOVASWISS
 ±0.02g ISCO (ISCO D-Series Syringe Pump, Model-260D)
 CCD(Charge Coupled Device) (Toshiba IK-C41MF) Real Time Frame Grabber(DATA TRANSLATION MASH Series DT3155)



1. 가 : 1. variable-volume view cell; 2. monitor; 3. air oven; 4. syringe pump; 5. CCD camera; 6. halogen light source; 7. pressure generator; 8. magnetic stirrer; 9. fluid transport line

3.

1mg electronic balance(OHAUS , Florham Park, NJ)
 ISCO (syringe pump)

가
 L-LL L-LL → 1+ (cloud point)
 2 L-LL LCST , 가
 L-LL 1+ 2가
 가
 RTFG cloudy opaque
 90%

