Fig. 1 Schematic of experimental apparatus

1. sealing rubber; 2. liquid heater; 3. thermosyphon; 4. pressure transducer; 5. Teflon cover; 6. insulation layer; 7. condensing system; 8. constant temperature water bath; 9. thermocouples; 10. connecting cable of pressure transducer; 11. computer; 12. data acquisition system; 13. liquid-liquid extraction system; 14. valves; 15. vacuum pump