

Vapor-Liquid Equilibria Measurement for the System of carbon dioxide(CO₂)
+ 1,1,1,2,3,3,3-Heptafluoropropane(R227ea) at Six Temperatures from 278.15 to
328.15 K

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Isothermal vapor-liquid equilibria data for the binary mixture of carbon dioxide(CO₂) + 1,1,1,2,3,3,3-Heptafluoropropane(R227ea) were measured within the range 278.15-328.15K. The data in the two-phase region were measured by using a circulation-type equilibrium apparatus in which both vapor and liquid phases were recirculated. The experimental data were correlated the Peng-Robinson equation of state(PR-EOS) combined with the Wong-Sandler mixing rule. It is confirmed that the data calculated by this equation of state are in good agreement with experimental data.