

A Research on Properties of Solubility for Chemicals in Supercritical Carbon Dioxide

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The chemicals are compounds that were used in mixture for semiconductor wafer cleaning. The concentrations were determined in the temperature and pressure ranges from 323.15 K to 343.15 K and 9 MPa to 30 MPa. Solubility data of chemicals in supercritical carbon dioxide were correlated in terms of the density (g/cm^3) of carbon dioxide using an empirical equation of Bartle et al. The resulting saturated solubility data points of chemicals in supercritical carbon dioxide were correlated.