Bubble-Point Measurements of Three Mixtures of cis-1,1,1,4,4,4-Hexafluorobutene (R-1336mzz(Z)) + trans-1,2-Dichloroethylene (R-1130(E))

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A static method has been used to measure the bubble-point pressures of three compositions of the mixture *cis*-1,1,1,4,4,4-hexafluorobutene (R-1336mzz(Z)) + *trans*-1,2-dichloroethylene (R-1130(E)) from 265 K to 360 K. One of the three compositions studied was the azeotropic mixture R-514A, which is being considered as an alternative to R-123. To validate the mixture measurements, bubble-points of the pure fluids, R-1336mzz(Z) and R-1130(E) were also measured and found to be within the scatter of existing literature data. The data obtained in this study were modeled using a perturbed-chain statistical associating fluid theory (PC-SAFT) equation of state. Deviations of this work and literature data from the PC-SAFT model will be presented, as well as a discussion of the combined overall uncertainty of the measurements.