

# LLV EQUILIBRIA AND BAROTROPIC INVERSION PHENOMENA IN THE SYSTEMS OF $\text{CHF}_3$ + PHENYLALKANE

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**Abstract:** *Liquid-liquid-vapor equilibrium data were experimentally collected, with the Cailletet apparatus in binary systems consisting of trifluoromethane and phenylalkane. The investigated systems exhibit type III phase behaviour, according to the general classification of van onnynenburg and Scott. The coordinates of the upper critical endpoints are presented and compared with literature data. Barotropic inversion phenomenon is also described and discussed.*

**Key words:** *trifluoromethane, phenylalkane, barotropic inversion.*