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The study aims at relationship between mass transfer and gas-liquid two-phase flow in a small diameter tube, and discusses the influence of liquid superficial velocity, gas superficial velocity, and flow pattern on the dissolution rate of soluble-wall. The comparison between the mass transfer rates in single liquid phase flow and in gas-liquid two-phase flow were also discussed. Experimental results show that the dissolution rate of urea in the gas-liquid two-phase system is significantly larger than that in single liquid-phase system.