

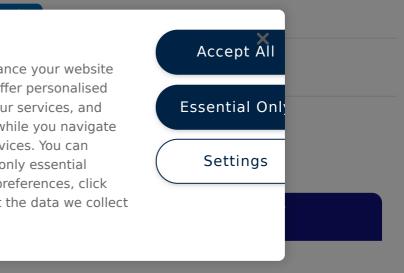
ABSTRACT

A micro-tube device for gas absorption is demonstrated as an example of the potential for design of separation process with micro-channel devices. CO_2 gas absorption in water with microchannels that were 10^{-4} to 10^{-3} m in hydraulic diameter was studied as a chemical unit operation. Pressure drops in whole experimental system and gas absorption rate were monitored with a conventional experimental system. Gas absorption rate was strongly enhanced with decreasing hydraulic diameter.

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