

عنوان مقاله:

Stability of Methane Hydrate Formed in Presence of Surfactants

محل انتشار:

یازدهمین کنگره ملی مهندسی شیمی ایران (سال: 1385)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

The effects of anionic surfactants sodium dodecyl sulfate (SDS) and linear alkyl benzene sulfonate (LABS), cationic surfactant cetyl trimethyl ammonium bromide (CTAB) and non-ionic surfactant ethoxylated nonylphenol (ENP) on the dissociation rate of methane hydrate have been investigated. Each surfactant was tested with concentration of 1000 ppm and hydrate stability tests have been performed at three temperatures 268.2, 270.2 and 272.2 K with and without surfactants. The results show that all tested surfactants increase the dissociation rate of methane hydrate below the .ice point. CTAB has the minimum and LABS the maximum effect on the methane hydrate dissociation rate

کلمات کلیدی:

Gas hydrates, Surfactants, Formation rate, Dissociation rate, Storage capacity

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