

## PROCESS AND PRODUCT TECHNOLOGY

全氟壬烯氟两相体系及其在酯化反应中的应用

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**摘要** Some apolar organic solvents is miscible with perfluorous nonene to form fluorous biphasic systems. Perfluorous nonene could be used as a green solvent in equimolar esterification of carboxylic acids with alcohols without removal of water or ester formed. Perfluorous nonene made the esterification equilibrium to move right and the yields of esterification to enhance in different degrees as compared with that in the absence of perfluorous nonene. After esterification perfluorous nonene is easy to be recovered and recycled.

**关键词** [perfluorous nonene](#) [fluorous biphasic system](#) [esterification](#) [green solvent](#)

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### Fluorous biphasic system of C<sub>9</sub>F<sub>18</sub> and its use in esterification

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**Abstract** Some apolar organic solvents is miscible with perfluorous nonene to form fluorous biphasic systems. Perfluorous nonene could be used as a green solvent in equimolar esterification of carboxylic acids with alcohols without removal of water or ester formed. Perfluorous nonene made the esterification equilibrium to move right and the yields of esterification to enhance in different degrees as compared with that in the absence of perfluorous nonene. After esterification perfluorous nonene is easy to be recovered and recycled.

**Key words** [perfluorous nonene](#); [fluorous biphasic system](#); [esterification](#); [green solvent](#)

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