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DESCRIPTORS: \*Hydrocarbons, \*Polymerization,  
Butadienes, Colloids.

A series of polymerization reactions were carried out with 1, 3-butadiene in the presence of various emulsifying agents and diazotiumbenzene as a catalyst. The rate of polymerization increased considerably when the concentration of the emulsifying agent increased, even within the concentration limits within which the surface activity of the latter remains practically constant. The

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