

NEW SURFACTANTS FOR PREPARING PERFLUOROCARBON EMULSIONS

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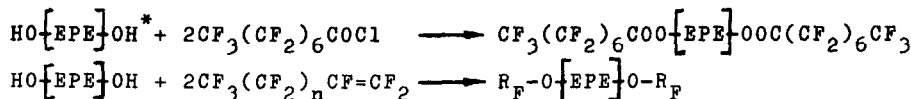
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For the preparation of finely dispersed stable emulsions the following prerequisites in regard to the emulsifier have to be noticed seriously from the viewpoint of surface chemistry:

- Surface and interface tensions σ , γ .
- Time dependence of γ as to judge diffusion rates.
- Wetting and spreading on a low energy surface proved by contact angle θ .
- Mechanical-rheological stability of adsorbed films on droplets examined by light absorption (optical density vs time) at 540 nm.

In this respect the commonly used emulgator Pluronic F 68 has been investigated in comparison with the novel PFC-modified polyol emulgator prepared by ourselves [1].

Synthesis is done by reacting fluoroolefins and fluorinated carboxylic acid derivatives, respectively with oligomer polyols according to



* ethylene oxide-propylene oxide blockcopolymer