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Title: The formation of complex droplets in liquid three phase systems and their effect on dispersion and phase separation

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PII: S0263-8762(17)30592-0

DOI: <https://doi.org/doi:10.1016/j.cherd.2017.10.027>

Reference: CHERD 2868

To appear in:

Received date: 12-4-2017

Revised date: 16-10-2017

Accepted date: 23-10-2017

Please cite this article as: L. Hohl, M. Kraume, The formation of complex droplets in liquid three phase systems and their effect on dispersion and phase separation, *Chemical Engineering Research and Design* (2017), <https://doi.org/10.1016/j.cherd.2017.10.027>

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Highlights

Endoscope technique is applied in liquid three phase microemulsion systems

Free energy and fluid dynamics determine the structure of complex droplets in microemulsions

Influence of parameters on inner drop number of multiple emulsions is evaluated

The formation of complex droplets severely affects phase separation

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