



Newsletter 04/07 : Mini-Plant for the Optimisation of Transesterification Processes

Does your biodiesel plant work under optimal conditions?

Did you already ask yourself how to optimise your biodiesel plant but realised that you don't have a mini-plant for adequate experiments? We can probably help you. As a well established analytical laboratory with main focus on regenerative fuels we are going to expand our range of services offered via the opening of a new mini-plant facility. Here you are able to work optionally undisturbed or with our help to follow your desired research and development tasks without having the necessary facilities on your own. As a matter of course you can resort on the large analytical services of ASG beside that.

Chemical Engineering related Optimisations

The situation of competition within the biodiesel industry is steadily growing. Thus all producers are confronted with the situation to search for cost reduction potentials. For the biodiesel production there are different fields of possible saving measures, for example: using different feedstocks, search for the accurate dosage of the catalyst, optimisation of the whole process for lowering the energy demand or the general improvement of the transesterification process with regard to product quality.

Mini-Plant Facility

In our mini-plant laboratory there are a lot of apparatus and measurement techniques available for the determination of relevant procedural parameters. For this purpose you can choose between continuous or discontinuous operation by using stirrer tank cascades or common batch reactors. Beside that we offer you appropriate laboratory equipment for washing, drying or distillation processes. Measurement techniques like reaction calorimetry or online infrared spectroscopy are ready for the implementation

into your research too.

Personal Support

If you require personal support our new employee Hendrik Stein will be at your side to answer your questions. Mr Stein studied chemistry at the Technical University of Braunschweig and worked several years as analytical chemist at the Federal Agricultural Research Centre (FAL). Following this he worked as technical expert for the German Association of Biofuel Industry in Berlin and is since April 2007 head of our mini-plant laboratory.

INFORMATION BOX - Typical questions which can be answered via mini-plant research experiments.

Feedstock

Which feedstocks need which kind of reaction conditions to get the optimum product yield in an acceptable time with a high quality product?

Catalyst

Is the dosage of the catalyst correct?

Energy

Are there any potentials for energy savings through optimisation of the reaction conditions?

Product

Which reaction conditions are necessary to secure a preferably complete transesterification and to minimize glyceride or free fatty acid contents in the product?

ASG is an independent service provider and thus only committed to our customers. Your transmitted information will be kept strictly confidential.

Do you have any questions? Please contact us!

Mo-Fr 08:00 until 18:00 o'clock

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