

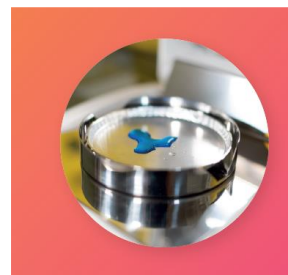
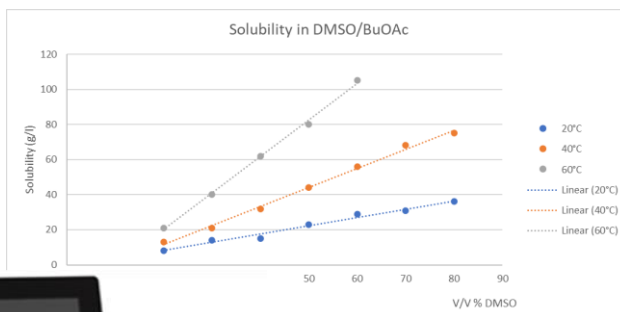


eXperiment

Application Notes

Application N° 2304

Fast Solubility Screening after Sedimentation

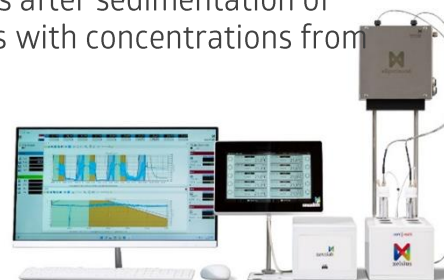


Keywords

Fast Solubility Screening, Halogen Moisture Analyzer, Sedimentation

Summary

Easy and rapid solvent screening and determination of solubility curves with xelsius reactor. Automated gravimetric analysis after sedimentation of temperature equilibrated and saturated solutions with concentrations from 0,5 % to 50% or higher.




nevolab

Am Gehrenbach 8
D-88167
Maierhöfen
info@nevolab.de



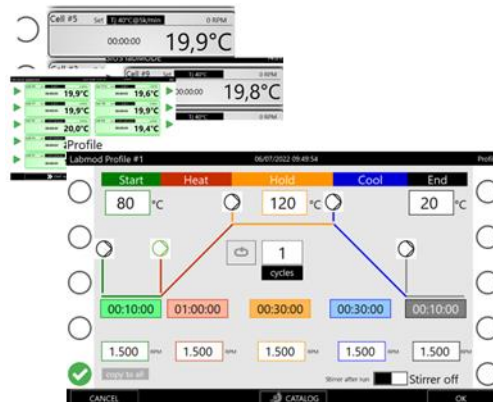
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Equipment

ITEM	DESCRIPTION
8053 000 100	xelsius Basic Unit Software 2,44 or higher
	Halogen Moisture Analyzer e.g. Kern DBS 60-3
8053 000 202	LV Vials Starter Kit 0,5 - 5ml



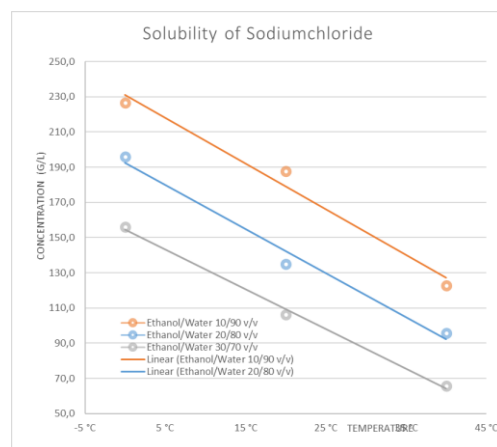
Reaction Set Up

Substances	
50 g	Sodium Chloride
100 ml	Ethanol (dry)
100 ml	Dionized water

Create a saturated solution of your substance/solvent. Equilibrate at a defined temperature between -20 °C and 150 °C during stirring, sedimentation without stirring. Take an aliquote and analyze concentration gravimetrically.

Results

Conc. (g/l) in Water/Ethanol	90/10	80/20	70/30
0 °C	226,8	196,1	156,1
20 °C	187,5	134,9	106,4
40 °C	122,9	95,9	65,8



Notes

Sublimation and thermal degradation could generate reduced findings

References

Data provided by: nevoLAB GmbH, 2022

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Am Gehrenbach 8
D-88167
Maierhöfen
info@nevolab.de



About us

nevoLAB is an innovative manufacturing company with skills and passion devoted to provide advanced quality tools and solutions to the chemical community. We are located in Maierhofen in south Germany. Our R&D team has developed and released a series of new lab equipment and instruments dedicated to modern research laboratories.

The eXperiment System

Based on modern IoT technology the eXperiment system is an ideal supplement to the xelsius synthesis reactor to gain more benefit out of your valuable research.

Intuitive software tools offers recordability, reproducibility and shareability to your experiments at every stage of the discovery process, from early reaction setup to analyzing and sharing the outcome.

Working with small volumes and miniaturized sensors saves chemicals and energy and provides high quality experimental data.

Application Notes

Chemical laboratories perform many different procedures during studies and research experiments. Thanks to its flexibility and modularity, xelsius & xelsius eXperiment system can cover many tasks of researches needs in an efficient way.

To support you during your research studies and tasks we have created "Application Notes" as a simple and user-friendly collection of successful use cases to work with the xelsius components to inspire you to find your solution for your valuable work. Enjoy!

