



Summary

Antisolvent Crystallization



	Target age
	Age 13 and over
	Level of difficulty
	Easy 🗹 Medium 🗖 High
	Key words:
Keywords	Raw Materials; Recycling; Hydrometallurgy; Chemical Engineering; Crystallization
	Abstract of the activity:
	In this laboratory activity, students will investigate antisolvent crystallization. The laboratory can either be carried out as a demonstration of antisolvent crystallization or as an investigative laboratory / high school project where different solvents and / or salts are examined.
GOALS	 Learning Goals Learn about separation processes applied for recycling of waste. Understand the principle of antisolvent crystallization. Know how to carry out antisolvent crystallization practically. Be aware of the importance of recycling of everyday-life devices.









Summary

2	Specific Abilities - At the end of the activity the student will be able to:
	 To know the principle of antisolvent crystallization, how it can be applied and pros and cons of the technology from an industrial perspective. Understand the importance of recycling and recovering resources from waste streams.
	Cross-curricula Links
	TechnologyCircular Economy
	 Prerequisites - Knowledge and skills necessary for carrying out the activity: Basic knowledge in chemistry
250	Time requirement
	• At least 1 h Instruments : Standard laboratory equipment and chemicals (see toolkit).
	Learning and Teaching Support Materials - What you can find in the
	toolkit
2. J	 A description of the separation technology and possible industrial applications focusing on resource recovery from waste.
ST 7	2. Instructions for carrying out the lab and study questions.
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