

CH4 : Separation and purification

ACTIVITY 2 : Recrystallization – main steps

DOCUMENT 1 : Recrystallization video

MIT Open Course Ware : Recrystallization

<https://ocw.mit.edu/resources/res-5-0001-digital-lab-techniques-manual-spring-2007/videos/>**Part 1 : DISSOLUTION OF SAMPLE, DECOLORATION AND HOT FILTRATION**

- Using a video:

Watch video “Recrystallization” from the MIT online learning course. **(Start at 4min40s end 9min55s)**

Rephrase the main steps and explain:

- Acquiring vocabulary: filling in the blanks

English	French
	Grains de pierre ponce
To clamp	
To tip over	
	Une impureté
Activated charcoal	
To absorb	
To swirl	
	Entonnoir
Filter paper	
	Un montage de filtration sous vide
The mother liquor	

■ Labelling the document: the vacuum filtration setup

Using the vocabulary help, label the following document:



Part 2 : COOLING, CRYSTALLIZATION

■ Using a video:

Watch video “Recrystallization” from the MIT online learning course. (Start at 10min end 12min50s)

What is the objective in this lab experiment?

■ Acquiring vocabulary: filling in the blanks

English	French
Crystal growth	
	Une astuce pour déclencher le procédé
	Amorcer
	Tremper un barreau en verre
To drive to completion	
To scrape	Gratter
Weighing dish	
RT : room temperature	
An oven	
A dessicator	

■ Using a document:



www.wikimediacommons.org

What happens in the above document? Present the results using the given vocabulary.

Activity summary

What you must remember :

- vocabulary associated with recrystallization

- the main steps of recrystallization

Skills linked to the curriculum :

Compétences	Capacités à maîtriser
– APP	– Connaître le vocabulaire lié à la recrystallisation
– ANA – COM	– présenter une cristallisation