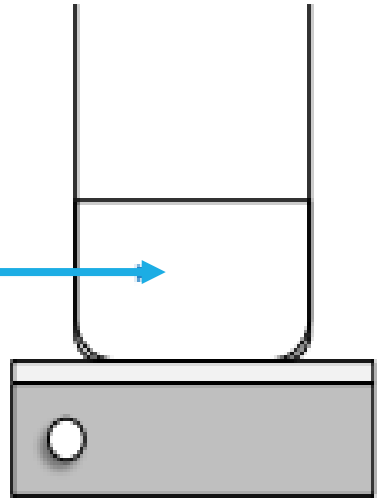
LC2

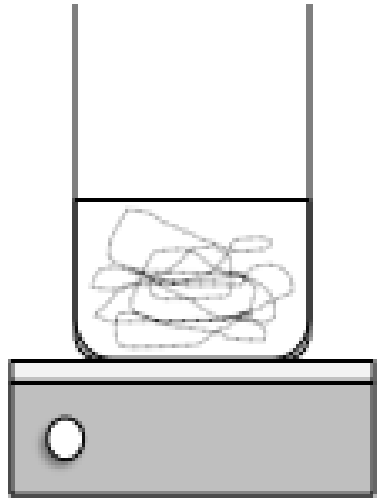
Polymères

Introduction

50 mL de lait à (à peu près) 40°C



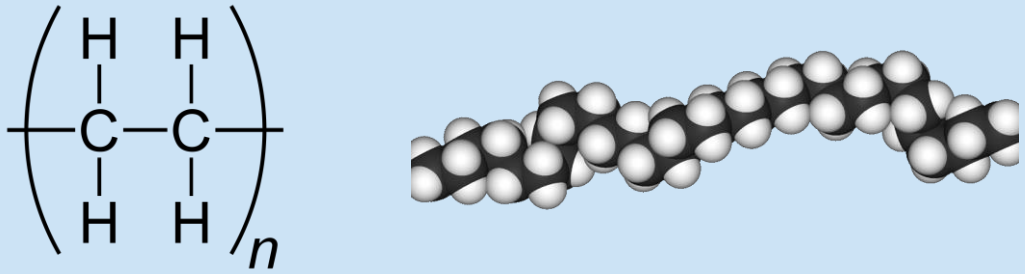
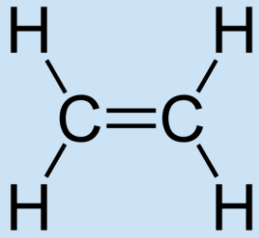
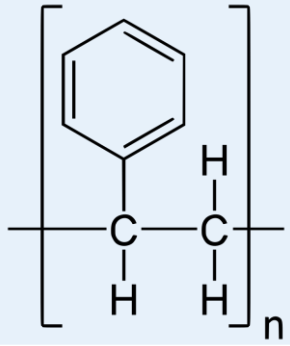
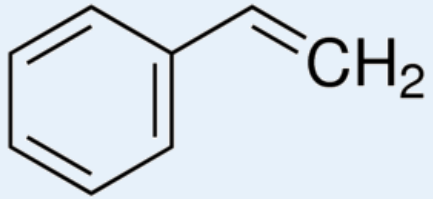
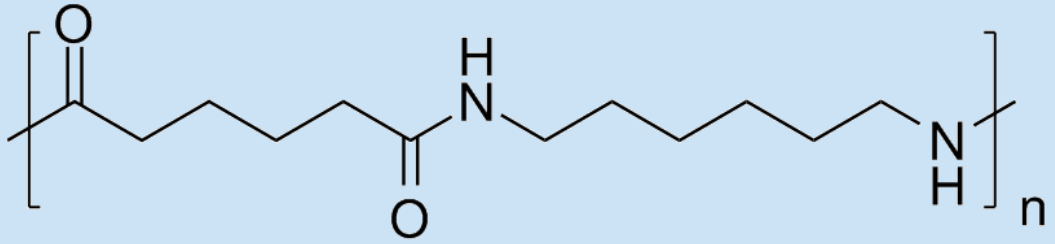
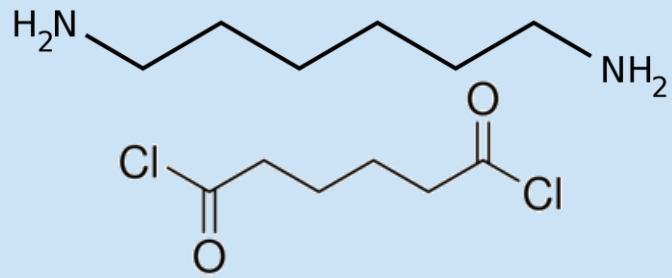
Ajout d'acide acétique jusqu'à pH voisin de $4/5$



Essorage pour récupérer la caséine précipitée

http://www.slampert.com/Activites%20pedagogiques/TPONC2.pdf

Exemples de polymères synthétiques

Nom	Représentation	Monomère
Polyéthylène		
Polystyrène		
Nylon (6-6)		

Utilisation courante des polymères synthétiques

Nylon pour des collants

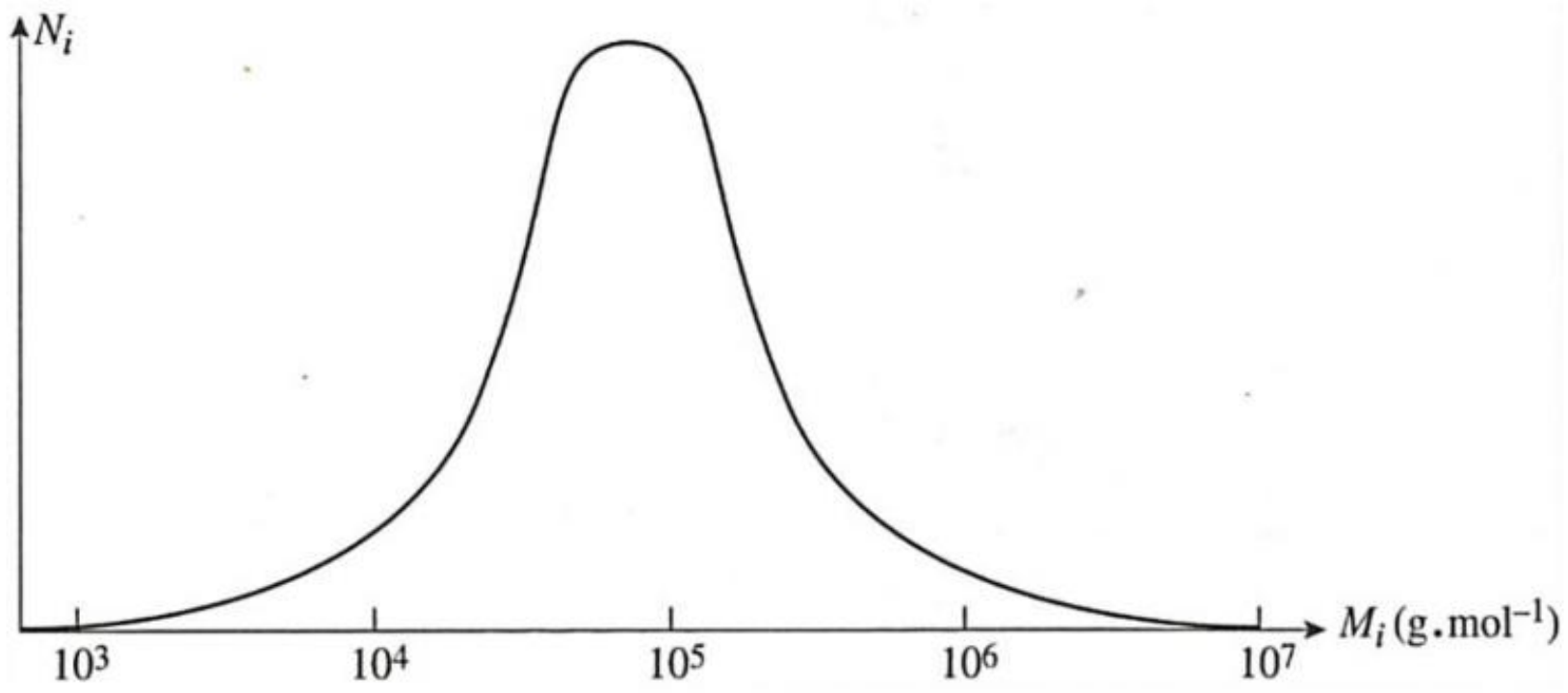
Polyéthylène pour des emballages :

Ex: mouchoirs jetables

Polystyrène pour l'isolation des bâtiments

Images de Google

Distribution de la masse Molaire de macromolécules dans un polymère

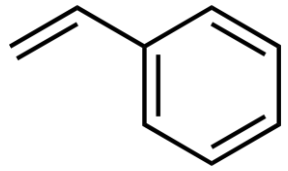


Synthèse du polystyrène - Polyaddition

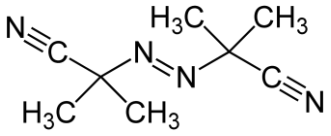
1

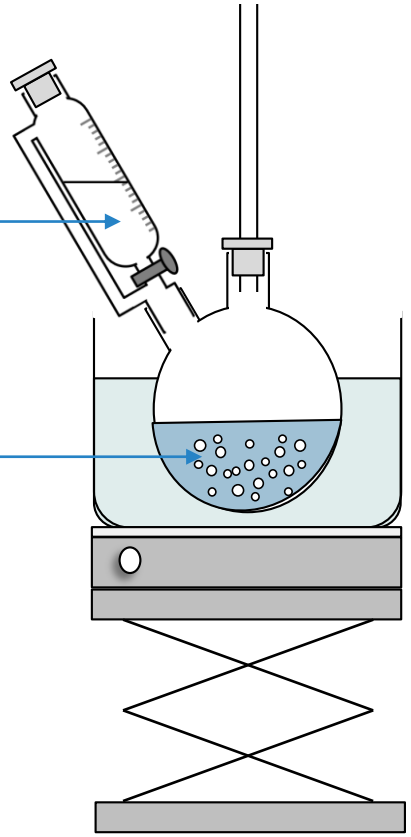
Toluène (10 mL)

Styrène (5,0 mL)



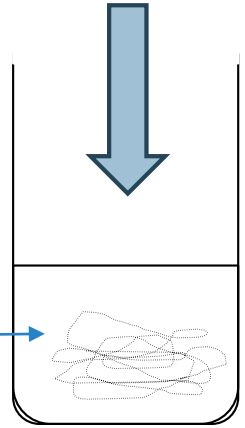
+ AIBN (2,0 mL)





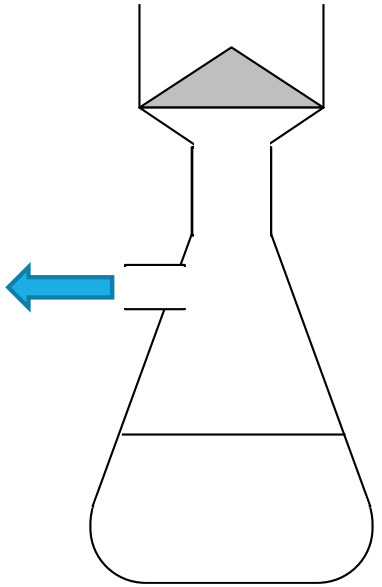
2

Éthanol



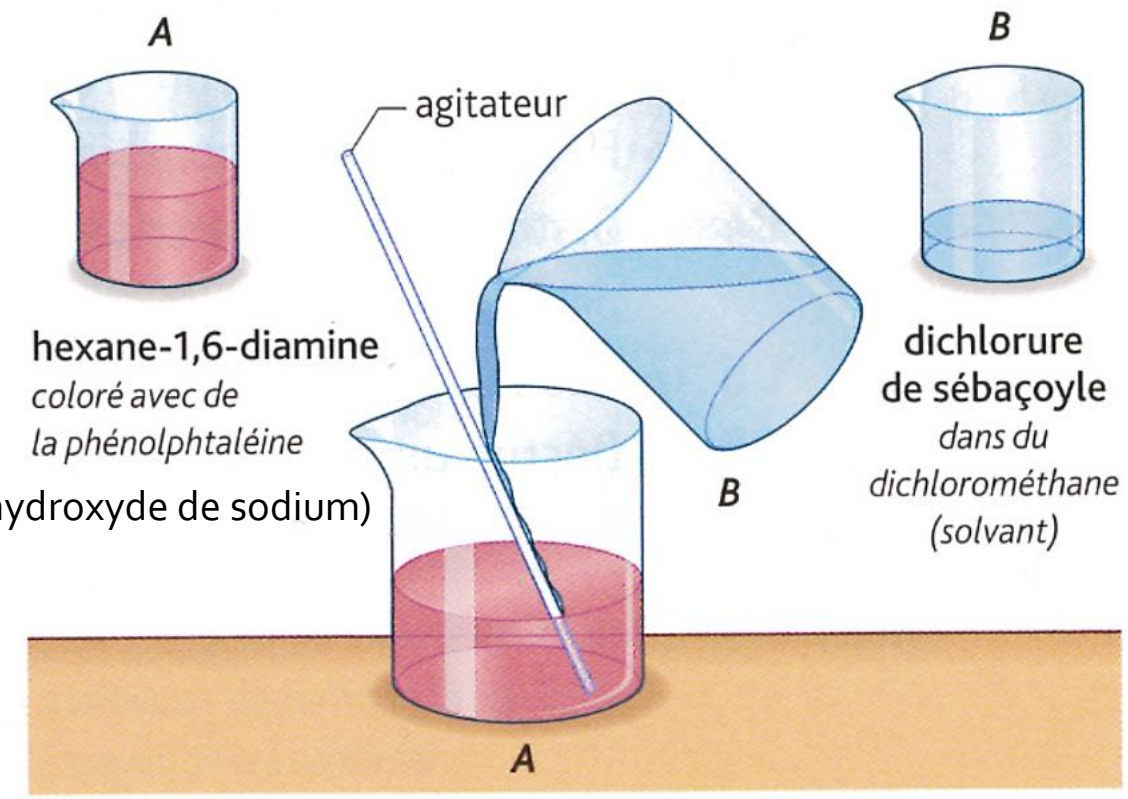
Isolement du polystyrène

3

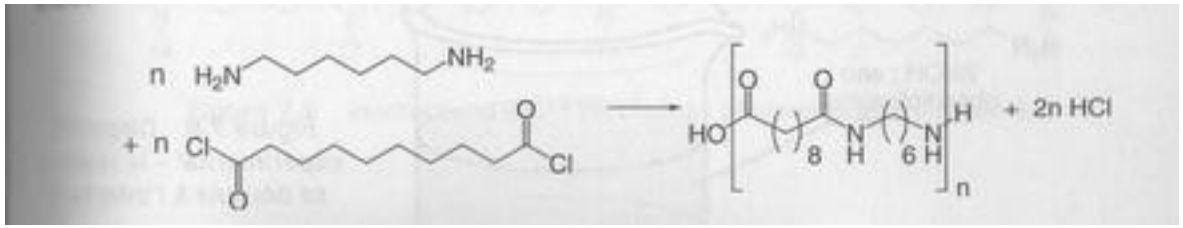


Essorage sous pression réduite

Synthèse du Nylon 6-10 - Polycondensation

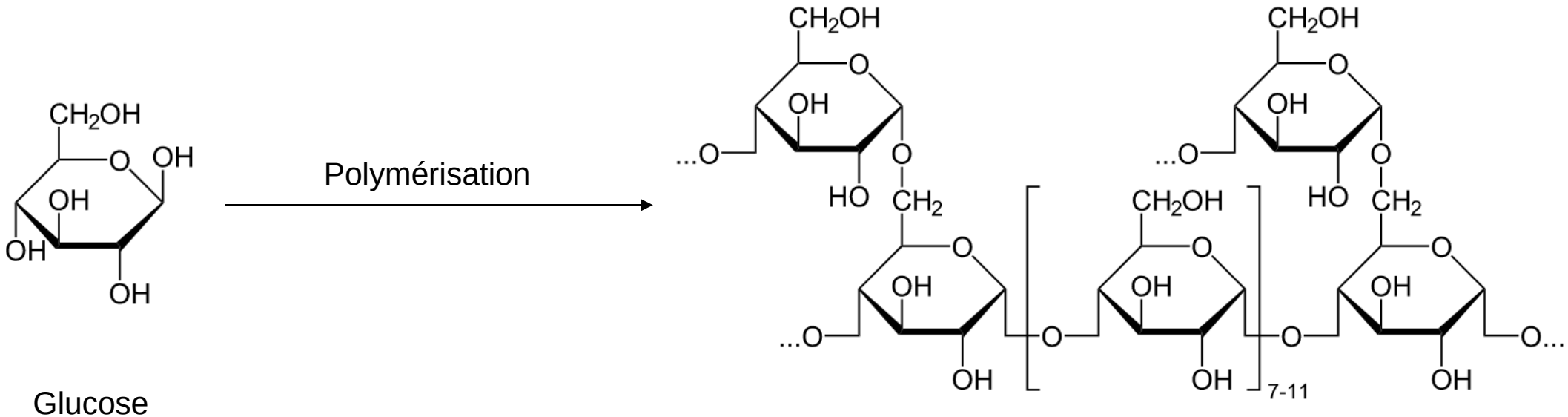


l'hexane-1,6-diamine



chlorure de l'acide décandioïque

Polymérisation dans le foie



Glucose

Glycogène

Wikipedie.fr

ADN deux macromolécules

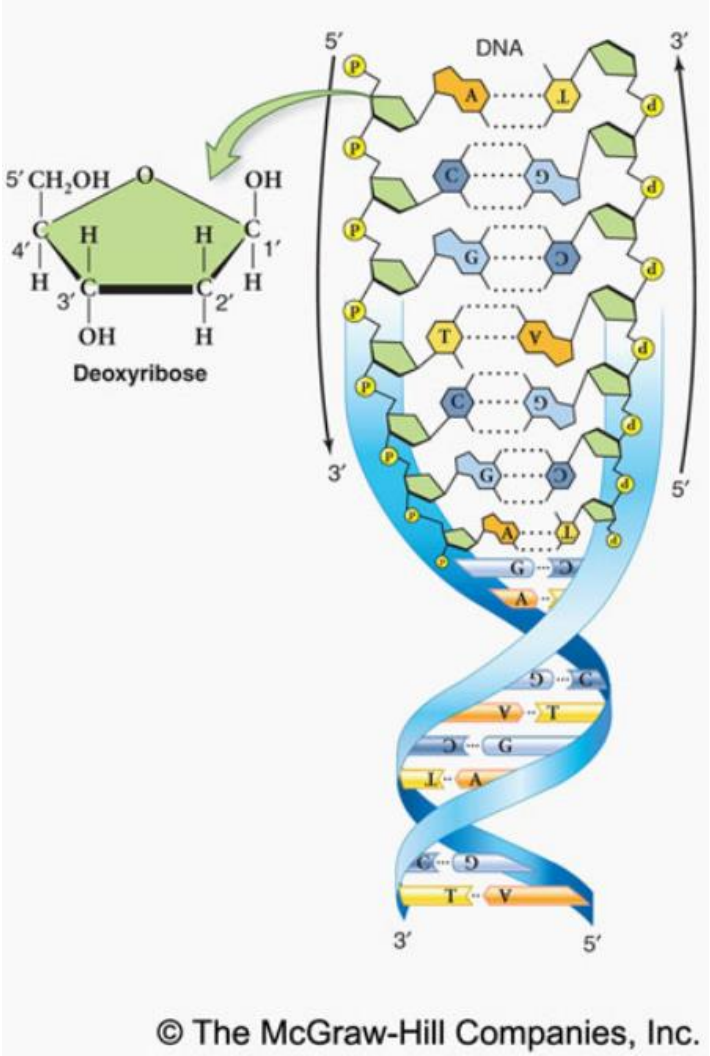
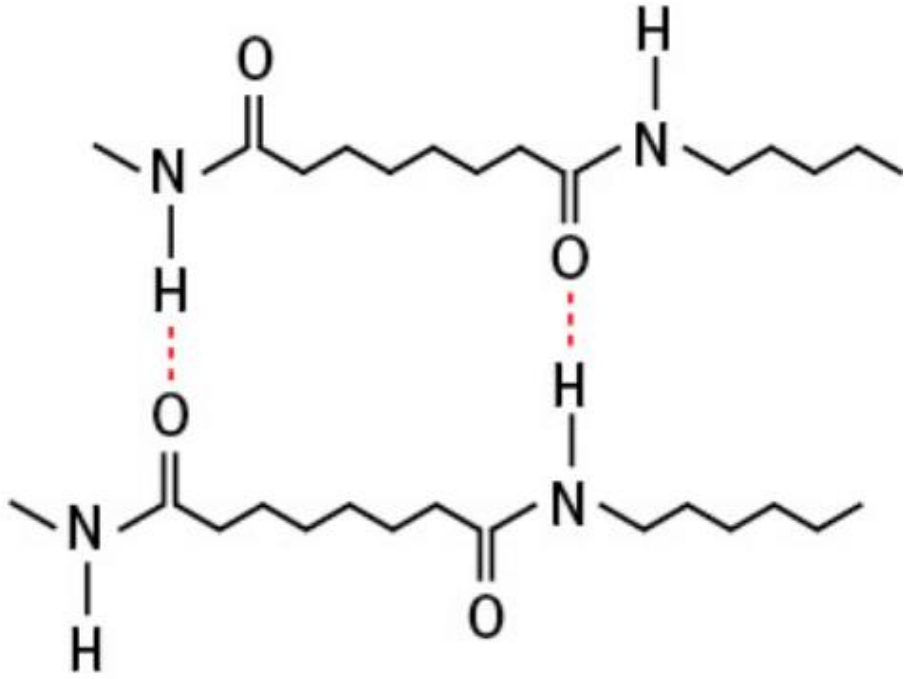


Image de public.iutenligne.net

Boutons de galalithe

Wikipedia.com

Pont Hydrogène entre macromolecules du nylon



Jean-Luc AZAN et al. Physique Chimie 1ère STI2D/STL. Nathan