



# LiquiSonic®

Questionnaire crystallization

company	_____
department	_____
name	_____
street	_____
ZIP, town	_____
phone	_____
fax	_____
e-mail	_____



## 1. Process liquid

### 1.1. Crystals

identifier: \_\_\_\_\_  
formula : \_\_\_\_\_  
CAS-number: \_\_\_\_\_  
crystal size: \_\_\_\_\_  
density: \_\_\_\_\_

### 1.2. Solvent

identifier: \_\_\_\_\_  
formula: \_\_\_\_\_  
formula: \_\_\_\_\_

## 2. Metastable range

saturation function  $c_s = f(T)$   $c_s =$  \_\_\_\_\_  
crystallization function  $c_k = f(T)$   $c_k =$  \_\_\_\_\_

Temperature	Saturation concentration	Concentration of seed generation

The metastable range is unknown.

## 3. Crystallization kinetics

crystallization kinetics:

The crystallization kinetics is unknown.

## 4. Cooling crystallization

start temperature: \_\_\_\_\_  
 final temperature: \_\_\_\_\_  
 cooling rate: \_\_\_\_\_  
 crystallizer principle: \_\_\_\_\_  
 volume of the crystallizer: \_\_\_\_\_  
 frigidty generation:  internal heat exchanger  external heat exchanger

## 5. Evaporation crystallization

crystallization temperature: \_\_\_\_\_  
 evaporation volume per hour: \_\_\_\_\_  
 heat generation:  internal heat exchanger  external heat exchanger  
 mass flow mother solution: \_\_\_\_\_

## 6. General technical data

pressure range: \_\_\_\_\_  
 Ex-level:  1  2  3  non  
 gas bubbles existing:  yes  no  
 stirrer existing:  yes  no  
 bypass existing:  yes (DN \_\_\_\_\_)  no  
 process connector existing:  yes (DN \_\_\_\_\_)  no  
 process control system existing:  yes  no

## 7. Informations

- I am interested in the determination of the metastable range.
- I am interested in the determination of the supersaturation during the crystallization.
- I am interested in the determination of the crystal content during the crystallization.
- I am interested in the determination of the supersaturation during the crystall dilution.
- Other: \_\_\_\_\_