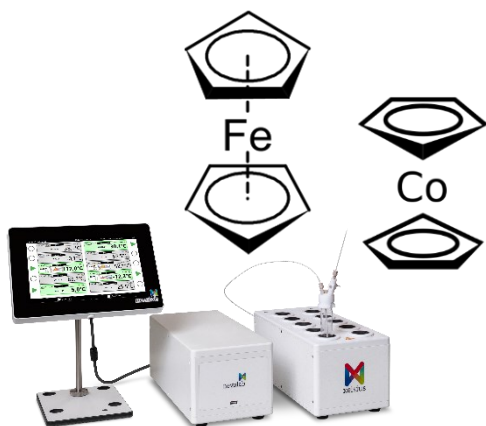


Crystallization of organometallic complexes



Keywords: Crystallization, Organometallic complexes

Summary

Crystallization of ruthenium-based organometallic compounds in anhydrous acetone medium.

Equipment

Item #	Description
8053 000 100	XELSIUS Basic Unit, Software Version: 2.44
8053 000 201	Reflux Condenser Module
8053 000 203	LV Vials Starter Kit, 0,5 - 5 ml
8053 000 204	Liquid Temperature Probe; Set of 5
8053 000 207	5-Port-Reaction Cap config set

Chemicals

	Description
20 ml	Anhydrous Acetone, CAS: 100-52-7
50 mmol	Organometallics Standard, e.g.

Methode

Temp. (°C)	Duration (h)	Stirrer (rpm)
Start: 10°C	48	OFF
End:	-	OFF

The slow precipitation of the complex is ensured by the low temperature, since in a solvent flow there is a risk of accelerating the precipitation times and not obtaining crystals that can be analyzed by means of diffractometric techniques.

Best practice working with Xelsius:

Nitrogen flow: approx. 5 ml/min

References:

Chemical structures page1: Source: https://en.wikipedia.org/wiki/Organometallic_chemistry

Data provided by: nevoLAB GmbH in cooperation with LabTech Srl, IT www.labtechsrl.com