

# Exp2\_ontology\_test

**Date:** 2024-08-02  
**Status:** Success  
**Created by:** Manuel Vollbrecht

**Title:**

Date of experiment:	24.06.2024
Experimenter:	Manuel Vollbrecht
Assistant:	
Goal of Experiment:	

Flame 1 (front) - precursors										
Sample ID	Element	Precursor (Metal)	Precursor provider (metal)	Precursor LOT number (metal)	Precursor (solvent)	Precursor provider (solvent)	Precursor LOT number (solvent)	used volume of precursor solution [ml]	precursor molarity [M]	notes:

exp2	Fe	Ferrocene	Strem	ABCABC	toluene	Sigma Aldrich	XYZXYZ	50	0.1	
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Flame 1 (front) - gas and dispersion parameters													
Sample ID	precursor feed rate [ml/min]	dispersion gas (type)	dispersion gas purity	dispersion gas flow rate [l/min]	fuel gas (type)	fuel gas purity	fuel gas flow rate [l/min]	O <sub>2</sub> gas purity (pilot flame)	O <sub>2</sub> flow rate [l/min] (pilot flame)	sheath gas (type)	sheath gas purity	sheath gas flow rate [l/min]	notes:
exp2	5	oxygen	5.0	5	methane	3.5	1.5	5.0	3.2				

Flame 1 (front) - reactor set-up						
Sample ID	Nozzle type (e.g. Tethis)	nozzle-filter distance [cm]	nozzle angle [°]	pressure drop at nozzle [bar]	final pressure drop [mbar]	notes:
exp2	Tethis	60	0	1.5	120	

Flame 2 (back) - precursors

Sample ID	Element	Precursor (Metal)	Precursor or provider (metal)	Precursor LOT number (metal)	Precursor (solvent)	Precursor provider (solvent)	Precursor LOT number (solvent)	mass of metal precursor [g]	total volume of precursor solution [ml]	precursor molarity [M]	notes:

Flame 2 (back) - gas and dispersion parameters

Sample ID	precursor feed rate [ml/min]	dispersion gas (type)	dispersion gas purity	dispersion gas flow rate [l/min]	fuel gas (type)	fuel gas purity	fuel gas flow rate [l/min]	O <sub>2</sub> gas purity (pilot flame)	O <sub>2</sub> flow rate [l/min] (pilot flame)	sheath gas (type)	sheath gas purity	sheath gas flow rate [l/min]	notes:

Flame 2 (Back) - reactor set-up

Sample ID	nozzle type (e.g. Tethis)	nozzle-filter distance [cm]	horizontal nozzle distance [cm]	nozzle angle [°]	pressure drop at nozzle [bar]	final pressure drop [mbar]	notes:

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Results				
Sample ID	empty filter [g]	covered filter [g]	sieving grid [µm]	Product after sieving [mg]
exp2	4.95	5.32	250	265

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Notes/observations:



Unique eLabID: 20240802-4c27978b7eb5404dd833c33404bad4f0acb4a874  
Link: <https://elabftw.iwt.zz/experiments.php?mode=view&id=2440>