

*Your reliable Partner for Custom Synthesis*

# EQUIPMENT & CAPABILITIES

**Fine Chemicals made in Germany**

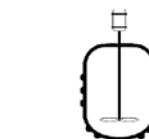




## WeylChem ORGANICA – Your Reliable Partner for Custom Synthesis

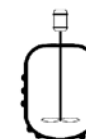
TRADITION MEETS INNOVATION

Located right in the middle of Europe within the “Chemiepark Bitterfeld-Wolfen” in an area of long-lasting chemical tradition and excellent infrastructure, we are specialized in the fields of custom synthesis and contract manufacturing. ORGANICA was founded in 1995 with roots that go back to the beginning of the 20th century and is your experienced partner for the synthesis of high-quality fine chemicals. Since 2023 we belong to the **WeylChem Group of Companies**. We combine our numerous laboratory and production processes with customer-oriented flexibility and absolute reliability as well as a high standard of science and technology. In this way, we can become for you what we already are for our customers: a consistently reliable partner.



**185 m<sup>3</sup>**

Total Reactor Capacity



**70**

Total Reactor Capacity

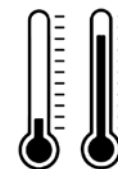


**75 l -  
6300 L**

Reactor Capacities



25 kg/a - 1.000 MT/a



-20 up to 230 °C



Procedures  
for Intermediates and Products

## Equipment Capabilities

A QUICK OVERVIEW

- 3 Fully Equipped R&D Laboratories
- Pilot/Multipurpose Plant
- 185 m<sup>3</sup> Reactor Capacity in Total
- Glass-Lined and Stainless Steel Reactors
- Agitated Filters, Filter Press, Tray Dryers, Vacuum Tray Dryers
- Hastelloy Centrifuge and Dryer
- 2 m<sup>3</sup> Buss Loop Reactor for Hydrogenations



## Customized R&D

RESEARCH BASED ON YOUR REQUIREMENTS

- Project Development on a Lab-scale up to 2.5 L
- Process Development for Scaled-up Batch Production
- 2 L-Autoclave for Hydrogenations
- Calorimetric Measurements
- Process Optimisation and Trouble Shooting



**3 R&D Laboratories**  
Fully Equipped



**Specialist Teams**  
2 Chemists & 4 Lab Assistants

## Analytical Test Methods

OUR QUALITY CONTROL DEPARTMENT

- GC, GC-MS, HPLC, UHPLC
- UV/Vis- + FT-IR-Spectroscopy
- Differential Scanning Calorimetry (DSC)
- Loss on Drying (Halogen, Vacuum)
- Color Number and Turbidity
- Titration (Automatically) and Water Titration (Karl-Fischer)



**Quickness & Flexibility**  
Every Analysis in 24 h



**External Partners**  
for NMR, ICP-OES, HS-GS



**Over 50 completed Audits**  
Since 2010





## Special Raw Materials and Conditions

HAZARDOUS CHEMICALS ARE OUR DAILY BUSINESS



- $\text{H}_2\text{S}$ ,  $\text{CS}_2$
- $\text{NaN}_3$ ,  $\text{POCl}_3$
- $\text{SOCl}_2$ ,  $\text{NH}_3$
- Metal Hydrides
  
- Hydrogenation
- Nitration (Oleum,  $\text{HNO}_3$  conc.)
- High Pressure Reactions
- Hazardous Reactions
- ...

## Selection of our 60 Reactors

MULTIPURPOSE EQUIPMENT

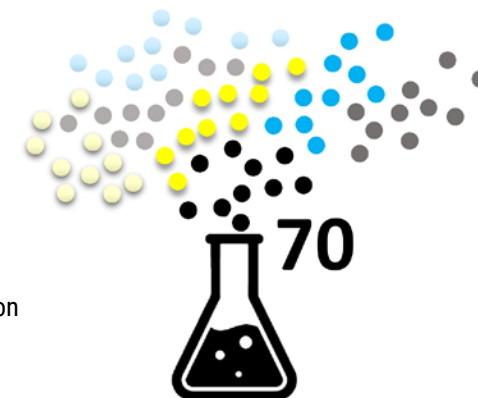
Type/Use	Material	Capacity	Pressure	Temperature
Large Scale	Glass-Lined	6300 L	atm	max. 170 °C
Small Scale	Glass-Lined	75 L	atm	max. 170 °C
$\text{CS}_2$	Stainless Steel	630 L	atm	-10 to +80 °C
Low Temp.	Stainless Steel + Glass-Lined	2500 L	atm to 5 mbar	-10 to +130 °C
		1600 L	atm to 3 mbar	-20 to +150 °C
		900 L	atm	-20 to +130 °C
High Temp.	Stainless Steel + Glass-Lined	400 L	atm	-10 to +135 °C
		1600 L	atm to 3 mbar	max. 230 °C
		500 L	atm to 3 mbar	max. 230 °C
Autoclaves	Stainless Steel	500 L	max. 50 bar	max. 130 °C
	Buss Loop Reactor	2000 L	max. 19 bar	max. 160 °C



## Process Knowledge

MORE THAN 70 TYPES OF REACTION ON LARGE SCALE

- Condensation
- Heterocycle Syntheses
- Amidation
- Halogenation
- Amination
- Nitration
- Sulfonation
- Acetylations
- Reduction + Chiral Hydrogenation
- Oxidation
- Diazotation
- Grignard Reactions
- Friedel-Crafts Alkylations and Acylations
- Heterogeneous and Homogeneous Catalysis
- ... for full scope go to [www.weylchem-organica.com](http://www.weylchem-organica.com)



Reaction Types



## Safety, Responsible Care and Environment Protection

ESSENTIAL PARTS OF OUR EVERYDAY WORK

- Exhaust- and Waste Water Control
- Sustainable Production Processes
- REACH Compliance



Managing Director  
**Dr. Jörg Blumhoff**  
+49 3494 39212-10  
jbl@weylchem-organica.com



Head of Marketing & Business  
Development  
**Dr. Ralf Mede**  
+49 3494 39212-26  
rm@weylchem-organica.com



Head of Procurement  
**Anja Röder**  
+49 3494 39212-15  
ar@weylchem-organica.com



Head of Sales  
**Diana Mittmeier**  
+49 3494 39212-20  
dmi@weylchem-organica.com



Contact us

WeylChem ORGANICA GmbH  
Kunstseidestraße 5  
06766 Bitterfeld-Wolfen, GERMANY  
T +49-3494 39212-0  
F +49-3494 39212-11  
info@weylchem-organica.com  
www.weylchem-organica.com