EQUIPMENT
Production

CHEMISCHE FABRIK BERG

REACTOR VESSELS (-15 TO 150°C, MAXIMUM 10BAR)

- 3 x 690 liter (Glass lined)
- 3 x 2500 liter (Glass lined)
- 2 x 4000 liter (Glass lined)
- 2 x 4000 liter (Stainless Steel)
- 2 x 6000 liter (Glass lined)
- 2 x 6000 liter (Stainless Steel)

CENTRIFUGES

- 1 x 1000 mm (Horizontal, Hastelloy)
- 1 x 1000 mm (Vertical, Stainless Steel)
- 2 x 1250 mm (Horizontal, Stainless Steel)

DRYER

- 30 m² Tray dryer (Vacuum, Stainless Steel)
- 40 m² Tray dryer (Circulating air, Stainless Steel)
- 1 x 1000 liter Bi cone dryer (Vacuum, Glass lined)
- 1 x 1000 liter Paddle dryer (Vacuum, Stainless Steel)
- 1 x 2000 liter Paddle dryer (Vacuum, Stainless Steel)
- 1 x Vacuum destillation column (28 theoretical plates, Glass)
- 1 x Jet Mill (300 mm, Milling surface in Stainless Steel, Teflon or Ceramics)

Laboratory

CHROMATOGRAPHY

- 6 HPLC (Agilent) with dioden array detector (DAD)
- 5 GC and GC/HS (Perkin Elmer) with FID and ECD
- Chromeleon CDS
- TLC testing incl. photo documentation

TITRATION

- Potentiometric titration (Metrohm)
- Karl-Fischer titration (Metrohm)
- Tiamo titration software
- Manual titration

SPECTROSCOPY

- Ultra violet spectroscopy
- Infra red spectroscopy

MELTING POINT DETERMINATION (METTLER TOLEDO)

DIFFERENTIAL SCANNING CALORIMETRY (METTLER TOLEDO)

POWDER X-RAY DIFFRACTION

PARTICLE SIZE DETERMINATION

- Laser diffraction (Malvern)
- Sieving

CHEMISCHE
FABRIK BERG

SINGLE LAB INSTRUMENTATION

- Balances (e.g. Mettler Toledo)
- pH measurement
- Drying ovens
- Turbidity measurement
- Refraction index
- Density determination
- Liquid handling

CLIMATIC CHAMBERS

- 25°C/60% r.H. (about 2000 liter)
- 30°C/75% r.H. (about 1000 liter)
- 40°C/75% r.H. (about 240 liter)

Pilot Plant

- one 400 liter and two 200 liter reactors (glass lined), tempered by temperature control units
- one 350 mm centrifuge (horizontal, stainless steel)