

Nr: 0012-R02e
2018-03-09

Operating Instructions

According to the
Betriebssicherheitsverordnung

UNIVERSITÄT
DUISBURG
ESSEN

Offen im Denken

Faculty of Chemistry

Institute: AAC

Work place: AAC Labs

Activity: Laboratory work

EQUIPMENT

HPLC Agilent 1100 Series

DANGERS FOR HUMANS AND ENVIRONMENT



- Danger through the injection needle.
- Working with solvents or acids.
- Danger of electric shock if liquids and the binary pump come into contact.
- Risk of electric shock when opening the pump housing.
- Hoses may contain residues of solvents that may leak out when the hoses are disassembled.
- Danger due to live parts of the device.

PROTECTIVE MEASURES AND RULES OF CONDUCT



- Before placing into operation, the operating instructions must be worked through carefully.
- All adjustment, maintenance and repair work on the opened device with the power supply connected must be avoided.
- Never touch live parts.
- When working with chemicals (solvents, acids) the usual safety precautions and protective measures must be taken (protective gowns, protective gloves, goggles, respiratory protection if necessary).
- Refer to the safety data sheets for the chemicals used.
- Avoid contact with the injection needle during measurement → Risk of injury.
- Avoid liquids run into the Binary Pump → Electric Shock.
- Do not make unauthorized changes to the device.
- Solvents, acids.

RESPONSE TO MALFUNCTIONS



Shut down device immediately, faults must be reported to:

- Maria Madani, if not present O. Schmitz, M. Sulkowski, F.Uteschil, S. Meckelmann.

BEHAVIOR IN CASE OF ACCIDENT / FIRST AID



- Keep calm.
- Call first responders.
- Emergency call: 0112
- Report accident.

MAINTENANCE / DISPOSAL

- Maintenance only by authorized, competent persons.
- Switch off the device and disconnect it from the mains.
- Regular inspection of wearing parts.