

Instruction Manual O8336-EN

Test kit Treat-5 (ST-DOS H-314)

Purpose

Rapid determination of ST-DOS H-314

Precondition

Test kit Treat-5 for ST-DOS H-314

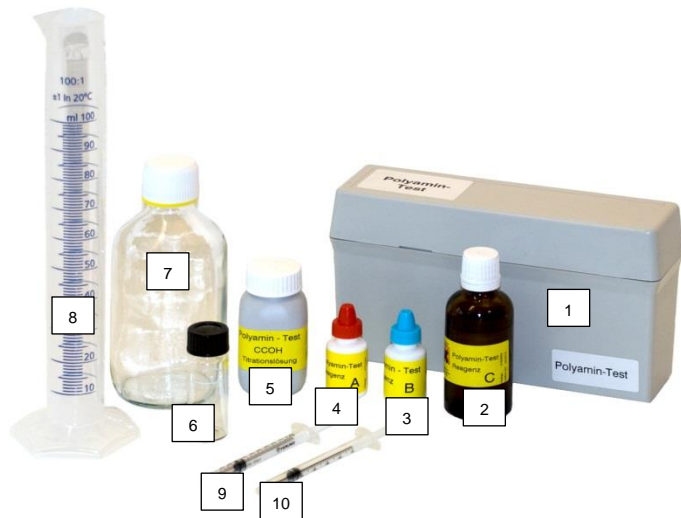


Fig. 1: Test kit Treat-5 for ST-DOS H-314

Item	Designation
1	Packaging for Test kit Treat-5 for ST-DOS H-314
2	Reagent C
3	Reagent B
4	Reagent A
5	CCOH titration solution
6	Titration container
7	Glass bottle
8	100 mL measurement cylinder
9	1 mL measurement pipette
10	Measurement pipette 0-60

Test kit Treat-5 for pH



Fig. 2: Test kit Treat-5 for pH

Item	Designation
1	1 L measuring container
2	pH measuring strips for 0– 14

Personal protective equipment

Personal protective equipment must be worn for all work:



Tight-fitting protective goggles

to protect the eyes from splashing of liquids.



Protective gloves

for protection of hands from abrasions, cuts or deeper wounds, as well as to prevent direct contact with hot surfaces, acids and alkalis when handling chemicals.

Procedure



WARNING!
Chemical injury hazard!

Depending on the type and dilution, chemicals can cause corrosion, irritate the respiratory system and membranes and can be poisonous if swallowed.

Therefore:

- Only have work with chemicals done by trained personnel.
- Carefully observe general security information for handling chemicals as indicated in the Material Safety Data Sheets.
- Do not mix chemicals.



Fig. 3: Fill measuring container

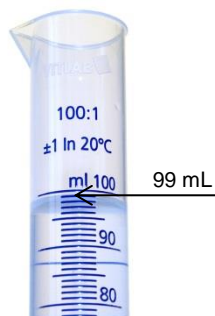


Fig. 4: Measuring cylinder filled to 99 mL.



1. Wash the measuring container well and place it empty under the Test connection. Keep the tap open until the measuring container is completely full
2. Empty the measuring container into the tank, moving the medium through the tank opening.
3. Put the measuring container back under the connection and open the tap until the measuring container is filled to about 400 mL.
4. Fill the measurement cylinder with untreated fresh water to the 99 mL mark.
5. Empty the measurement cylinder containing 99 mL of untreated fresh water into a glass bottle.

Fig. 5: Empty the measurement cylinder



6. Use the '1 mL measurement pipette' to take a 1 mL sample of the water to be tested from the measurement container.

Fig. 6: 1 ml. measurement pipette filled



Fig. 7: Add the water sample

7. Add the contents of the 1 mL measurement pipette to the glass bottle.



Fig. 8: Shake the glass bottle

8. Put the lid tightly on the glass bottle and shake hard.



Fig. 9: Fill up the titration glass

9. Fill the titration glass up to the mark with a diluted water sample from the glass bottle.



Fig. 10: Add reagent C

10. Add reagent C to the titration container until the bottom is well covered (about 40 drops).



Fig. 11: Add reagent A and reagent B

11. Add two drops of reagent A. Add two drops of reagent B. Close the lid and then shake hard.



Fig. 12: Colourless phase separation



Fig. 13: Blue phase separation



Fig. 14: Fill measurement pipette



Fig. 15: Add titration solution

12. After shaking, wait for phase separation

→ lower layer is colourless (→ Fig. 12)
no polyamide present. Continue on with step 18.
The result is Corrosion Value = 1

→ lower layer is blue (→ Fig. 13)
polyamide present. Continue on with step 13.

13. Fill Measurement pipette 0–60 to the top of scale '0' using 'CCOH titration solution'.

14. Add a 10-unit of 'CCOH titration solution' to the titration container.



Fig. 16: Shaking and phase separation



Fig. 17: Blue-pink phase separation

15. Seal the titration container tight, shake well and wait for phase separation.

16. Repeat steps 14 and 15 until the coloured area on the bottom of the titration container changes from blue to blue-pink. If one load of 'measurement pipette 0–60' doesn't suffice, repeat step 13.

17. The polyamide content can be read from the scale on the measurement pipette. When reading the result, factor in any previous filling of the measurement pipette.

Example:

Two complete fillings of the measurement pipette + a value of 40 read from the measurement pipette.

Computation: $2 \times 60 + 40 = 160$

18. Enter the results from step 17 or 12 for [Result corrosion](#).

Warning ▶ Maintenance medium	
Periodic maintenance medium is due. Please check medium with test kit, input results, start analysis or postpone by 3 days maintenance medium by cancelling.	
Result corrosion	165
Result pH Value	--
Start analysis	
Cancel	
1 Filling vol.	23.0 L
Pressure	0.0 bar
Normal operation	

Fig. 18: Enter Corrosion Value



Fig. 19: Measure pH

19. Stick pH measuring strips into the measurement container.

20. Compare the pH measurement strips that were stuck into the measurement container and read the pH.



Fig. 20: Read pH

Warning ▶ Maintenance medium	
Periodic maintenance medium is due. Please check medium with test kit, input results, start analysis or postpone by 3 days maintenance medium by cancelling.	
Result corrosion	165
Result pH Value	8.0
Start analysis	
Cancel	
1 Filling vol.	23.0 L
Pressure	0.0 bar
Normal operation	

21. Enter the results from step 20 for [Result pH Value](#).
22. Start computation using [Start analysis](#).
→ Continue as indicated on the screen display.

Fig. 21: Enter pH