



C1.3.2 WATER SYNTHESIS

C1.3.2.1_p
Qualitative water synthesis

C1.3.2.1_s
Qualitative water synthesis
using stand material

Qualitative water synthesis (C1.3.2.1_p)

Cat. No.	Description	C1.3.2.1_p	C1.3.2.1_s
375 56	Water jet pump	1	1
664 133	Beaker, Boro3.3, 1000 ml, squat	1	1
665 001	Funnel for gas collection	1	1
664 800	Gas scrubber bottle, lower section, 200 ml	1	1
664 805	Glass tube insert, ST 29/32	1	1
665 237	Glass nozzle straight, 8 mm Ø	1	1
664 093	U-tube, 160 x 22 mm, 2 side taps	1	1
666 425	Panel frame C50, two-level, for CPS	1	
666 4659	Adhesive magnetic board 500 mm	1	
666 4661	Holder, magnetic, size 1, 9...11 mm	1	
666 4662	Holder, magnetic, size 2, 11...14 mm	2	
666 4664	Holder, magnetic, size 4, 27...29 mm	1	
667 312	Glass connector, 2 x GL 18	1	
300 76	Laboratory stand II	1	1
667 257	Rubber stopper solid, 19...24 mm Ø	2	2
666 4795	HydroStik PRO, CPS	1	
666 4798	HydroFill PRO	1	1
667 197	Silicone tubing, 4 mm diam., 1 m	1	1
604 481	Rubber tubing, 1 m x 4 mm diam., DIN 12865	1	
672 9700	Copper(II) sulfate, dry, 50 g	1	1
675 3410	Water, pure, 5 l	1	1
671 8410	Iron wool, 200 g	1	1
300 02	Stand base, V-shaped, small		2
608 051	Stand tube, 750 mm, diam. 10 mm		2
301 09	Bosshead S		4

Cat. No.	Description	C1.3.2.1_p	C1.3.2.1_s
666 555	Universal clamp 0...80 mm		4
667 183	Rubber tubing, 1 m x 8 mm diam., DIN 12865		1
666 4796	HydroStik PRO		1
666 4797	Regulating valve		1

Water is available in large quantities on Earth, but it can also be synthesised in the laboratory. The synthesis of water is a complementary experiment to the electrolytic decomposition of water.

In experiment C1.3.2.1, hydrogen is burned. The resulting hydrogen oxide is collected in a U-tube. White copper(II)-sulfate or water detection test paper is used to prove that it is water.

