



C5.1.1 PRODUCTION OF BASE CHEMICALS

C5.1.1.1 Production of sulfuric acid by the contact method

Production of sulfuric acid by the contact method (C5.1.1.1)

Cat. No.	Description	C5.1.1.1
666 360	Catalytic converter	1
666 428	Panel frame C100, two-level, for CPS	1
666 4660	Adhesive magnetic board 300 mm	6
666 4662	Holder, magnetic, size 2, 11...14 mm	6
666 4664	Holder, magnetic, size 4, 27...29 mm	3
665 001	Funnel for gas collection	1
664 442	Evaporating dish, 80 mm diam.	1
664 800	Gas scrubber bottle, lower section, 200 ml	3
664 805	Glass tube insert, ST 29/32	3
665 392	Joint clip plastic, ST 29/32	3
667 313	Glass connector, 1 GL 18, with glass olive	2
667 312	Glass connector, 2 x GL 18	2
665 9351	Woulff's bottle with manometer	1
667 261	Rubber stopper, one 7-mm hole, 25...31 mm Ø	1
524 005W	Mobile-CASSY 2 WiFi	1
529 676	Temperature probe, NiCr-Ni, 1.5 mm, type K	1
300 76	Laboratory stand II	2
300 02	Stand base, V-shaped, small	1
300 43	Stand rod, 75 cm, 12 mm diam.	1
301 72	Universal clamp, 0...120 mm	1
666 714	Cartridge burner, DIN type	2
375 56	Water jet pump	1
667 186	Vacuum rubber tubing, 8 mm diam.	1
307 64	Rubber tubing, 1 m x 6 mm diam.	1
665 226	Connector, straight, 6/8 mm Ø	1

Cat. No.	Description	C5.1.1.1
608 020	Four-legged stand, rectangular, 155 x 155 x 220 mm	1
666 686	Heat protection cover plate, Ceran®, 155 mm x 155 mm	1
666 961	Double-ended microspatula, stainless steel, 185 mm	1
665 754	Measuring cylinder 100 ml, with plastic base	1
661 243	Wash bottle PE 500 ml	1
602 023	Beaker, Boro 3.3, 150 ml, squat	1
665 953	Dropping pipette, 7 x 150 mm, 10 pcs.	1
665 954	Rubber bulbs, 10 pcs	1
ADA CB501	Compact scale 500 g : 0.1 g	1
674 7510	Sulfur, cryst., 250 g	1
674 7860	Sulfuric acid, 95-98 %, 500 ml	1
672 0820	Fuchsine solution, 50 ml	1
670 7200	Barium chloride, 100 g	1
661 0821	Stopcock grease (grease stick)	1

Experiment C5.1.1.1 demonstrates the technical production of sulfuric acid by the contact method. The sulfur dioxide produced from the combustion of sulfur is oxidised by a catalyst to sulfur trioxide in the reaction tube. That is then led to water or sulfuric acid.