



### C3.2.1 GAS CHROMATOGRAPHY

C3.2.1.2\_p  
 Gas chromatographical separation  
 of alcohols - effect of temperature

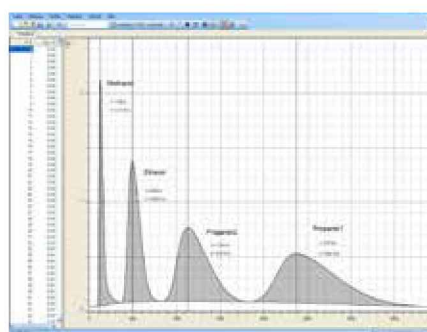
C3.2.1.2\_s  
 Gas chromatographical  
 separation of alcohols - effect of  
 temperature using stand material

Gas chromatographical separation of alcohols - effect of temperature (C3.2.1.2\_p)

Cat. No.	Description	C3.2.1.2_p	C3.2.1.2_s
524 005W	Mobile-CASSY 2 WiFi	1	1
524 220	CASSY Lab 2	1	1
665 580	Gas chromatograph LD 1	1	1
665 582	Hydrocarbon sensor	1	1
665 584	Separation column with Porapak P	1	1
662 2861	Aquarium pump, 100 l/h	1	1
664 814	Bubble counter, with flash back valve	1	1
602 013	Beaker, Boro 3.3, 800 ml, tall	2	2
300 76	Laboratory stand II	1	1
607 5025	Magnetic stirrer with hotplate	1	1
666 851	Stirring magnet 25 mm x 6 mm Ø, circular	1	1
382 21	Stirring thermometer -10...+110 °C	1	1
665 957	Disposable syringe, 1 ml, with Luer fitting	1	1
665 960	Cannula, 0.45 diam., 10 pcs., with Luer fitting	1	1
501 45	Connecting lead 19 A, 50 cm, red/blue, pair	1	1
666 425	Panel frame C50, two-level, for CPS	1	
666 4660	Adhesive magnetic board 300 mm	1	
524 0036	Holder for Mobile-CASSY 2, CPS	1	
665 588	Base panel for gas chromatograph LD 1, CPS	1	
665 589	Septa, silicone, 13 mm diam., 10 pcs.	1	1
667 197	Silicone tubing, 4 mm diam., 1 m	1	1
673 2700	Methanol, 250 ml	1	1
671 9700	Ethanol, absolute, 250 ml	1	1
671 9740	Ethanol, denaturated, 250 ml	1	1
674 4310	1-Propanol, 250 ml	1	1

Cat. No.	Description	C3.2.1.2_p	C3.2.1.2_s
674 4400	2-Propanol, 250 ml	1	1
666 503	Base plate for bunsen stand, 130 x 210 mm		1
666 523	Stand rod, 450 x 12 mm diam., M10 thread		1
666 555	Universal clamp 0...80 mm		1
301 09	Bosshead S		1
	additionally required: PC with Windows 7 or higher with WiFi or USB connection	1	1

A gas chromatograph can be used to separate not only gaseous substances, but also volatile liquids. Only the gaseous part is separated, however. In such cases, the separation column and the carrier gas can be warmed if necessary. In experiment C3.2.1.2, the gas chromatographic analysis of an alcohol mixture is carried out.



Chromatogram of the analysis of different alcohols