



### C3.4.3 ELECTRON SPIN RESONANCE SPECTROSCOPY

#### C3.4.4.1 Electron spin resonance on DPPH

Electron spin resonance on DPPH (C3.4.4.1)

Cat. No.	Description	C3.4.4.1
514 55	ESR basic unit	1
514 571	ESR supply unit	1
555 604	Pair of Helmholtz coils	1
575 304	Digital storage oscilloscope 70 MHz two-channel	1
501 02	BNC cable, 1 m	2
300 11	Saddle base	3
501 23	Connecting lead, 32 A, 25 cm, black	1
501 25	Connecting lead, 32 A, 50 cm, red	1
501 26	Connecting lead, 32 A, 50 cm, blue	1

In experiment C3.4.4.1, electron spin resonance is demonstrated on diphenylpicrylhydrazyl (DPPH). DPPH is a radical in which a free electron occurs on a nitrogen atom. In the experiment, the resonance frequencies can be predefined continuously between 13 and 130 MHz. The aim of the assessment is to determine the  $g$  factor.