

Supplementary Material

New method of synthesis of 2-arylpiperidines - reaction of resorcinol and its derivatives with γ -ureidoacetals

Almir S. Gazizov^{a*}, Andrey V. Smolobochkin^b, Yulia K. Voronina^a, Alexander R. Buriyov,^a
and Michail A. Pudovik^a

^a*A.E. Arbuzov Institute of Organic and Physical Chemistry, Kazan Scientific Centre, Russian Academy of Sciences, 420088, Russia, Kazan, Arbuzova str., 8.*

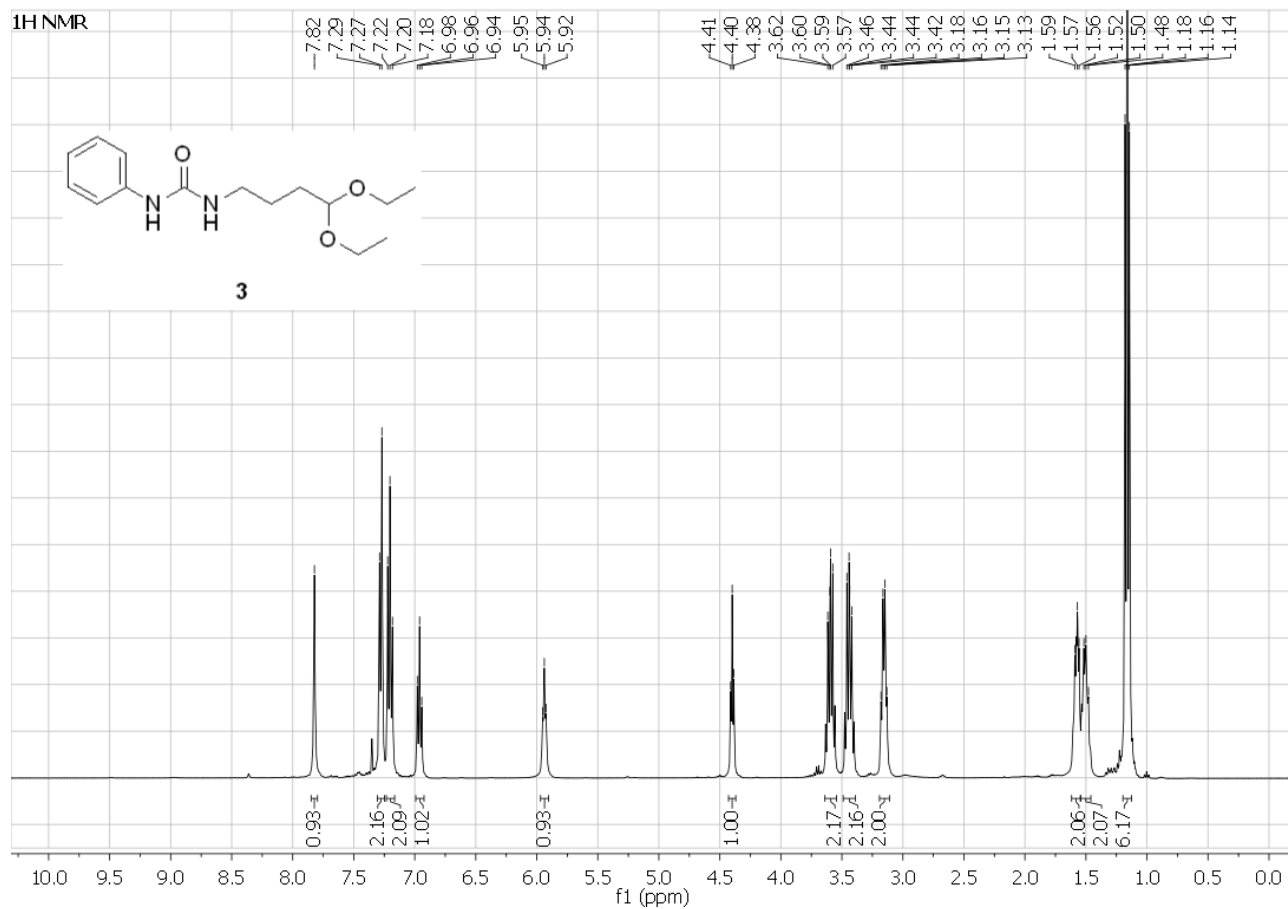
^b*Kazan National Research Technological University, 420015, Russia, Kazan, Karl Marx str., 68
E-mail: agazizov@iopc.ru*

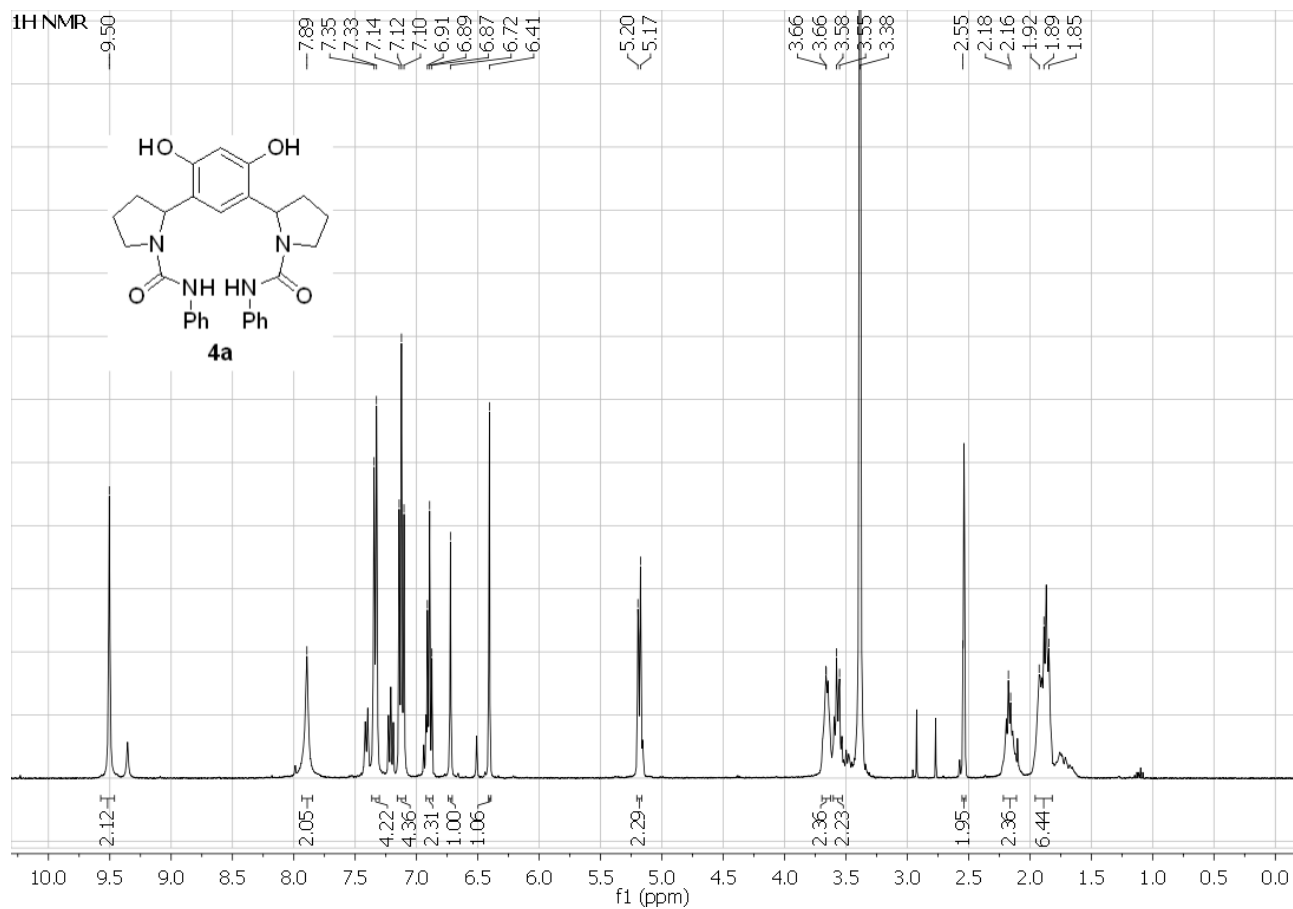
Spectral data

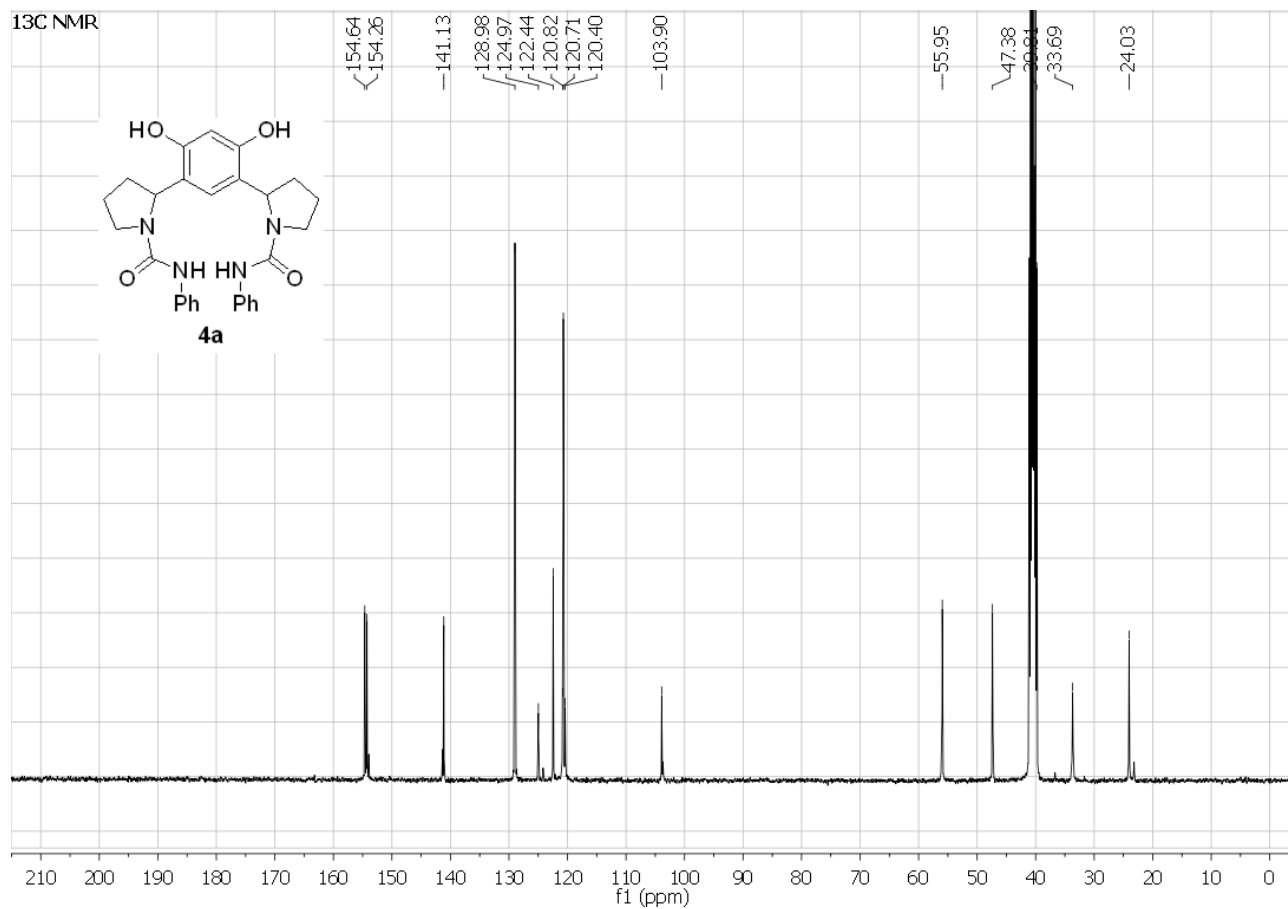
Contents:

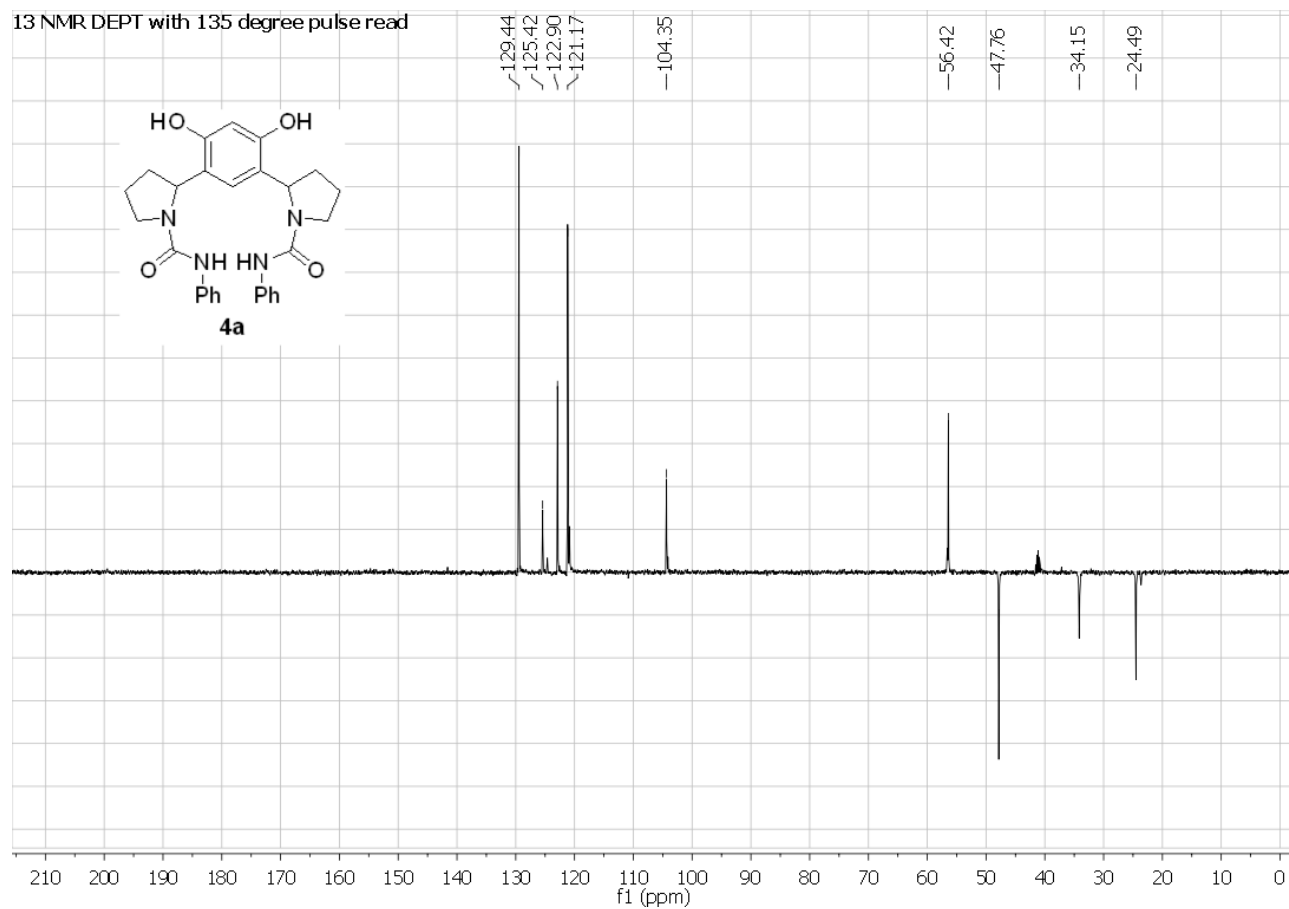
1. Copies of NMR spectra for synthesized compoundsS2
2. Parameters of the classical hydrogen bonds in crystal of compound 4b.S12

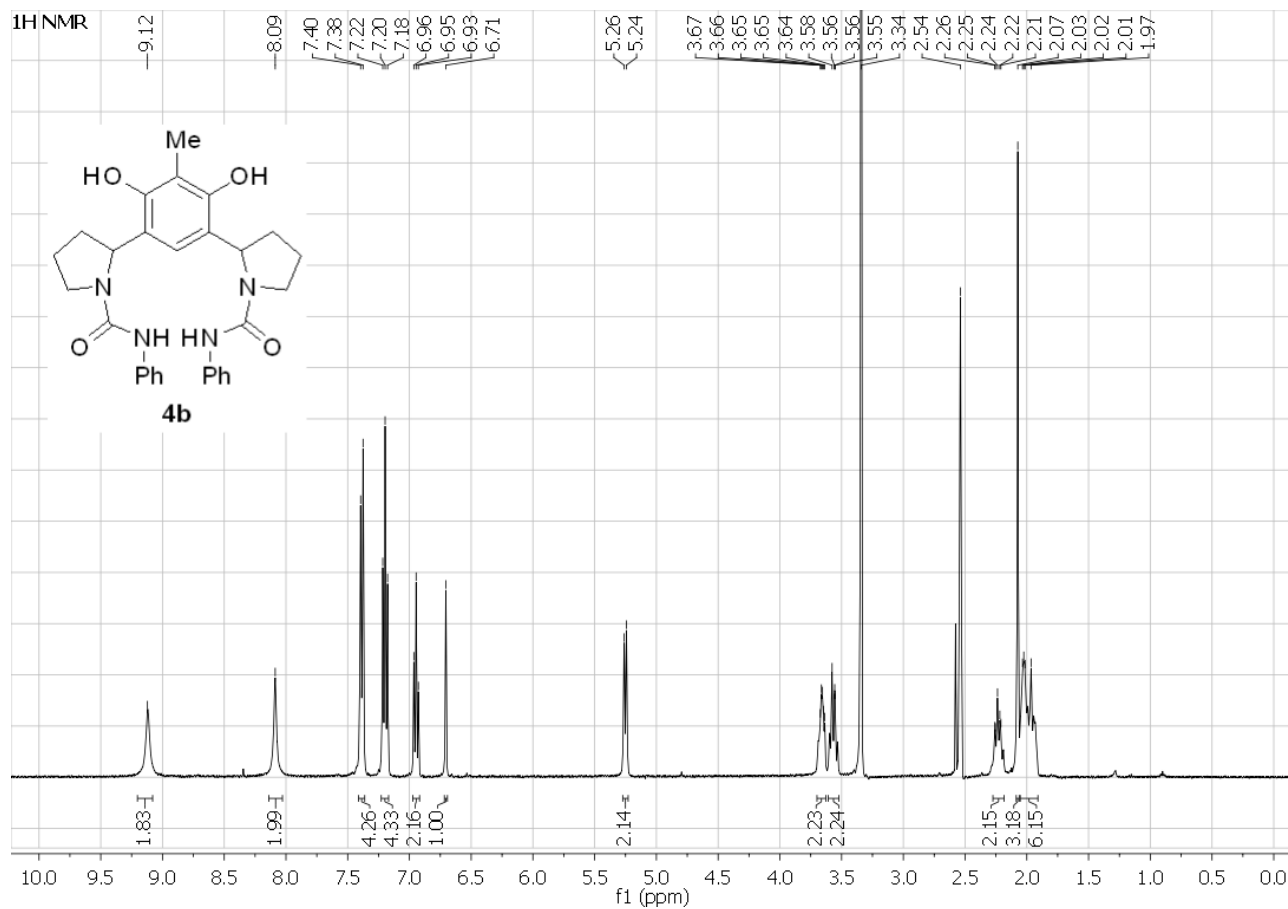
1. Copies of NMR spectra for synthesized compounds

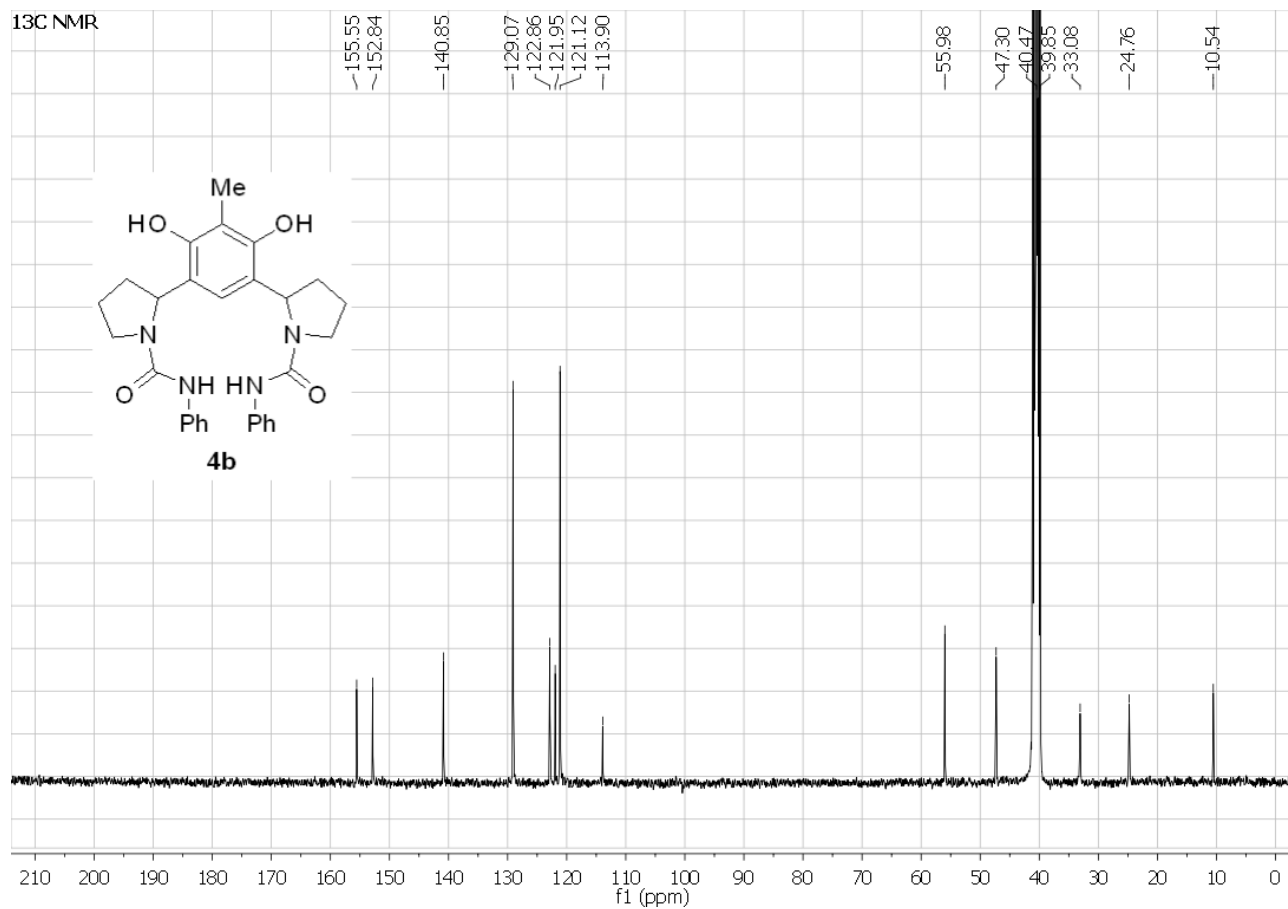


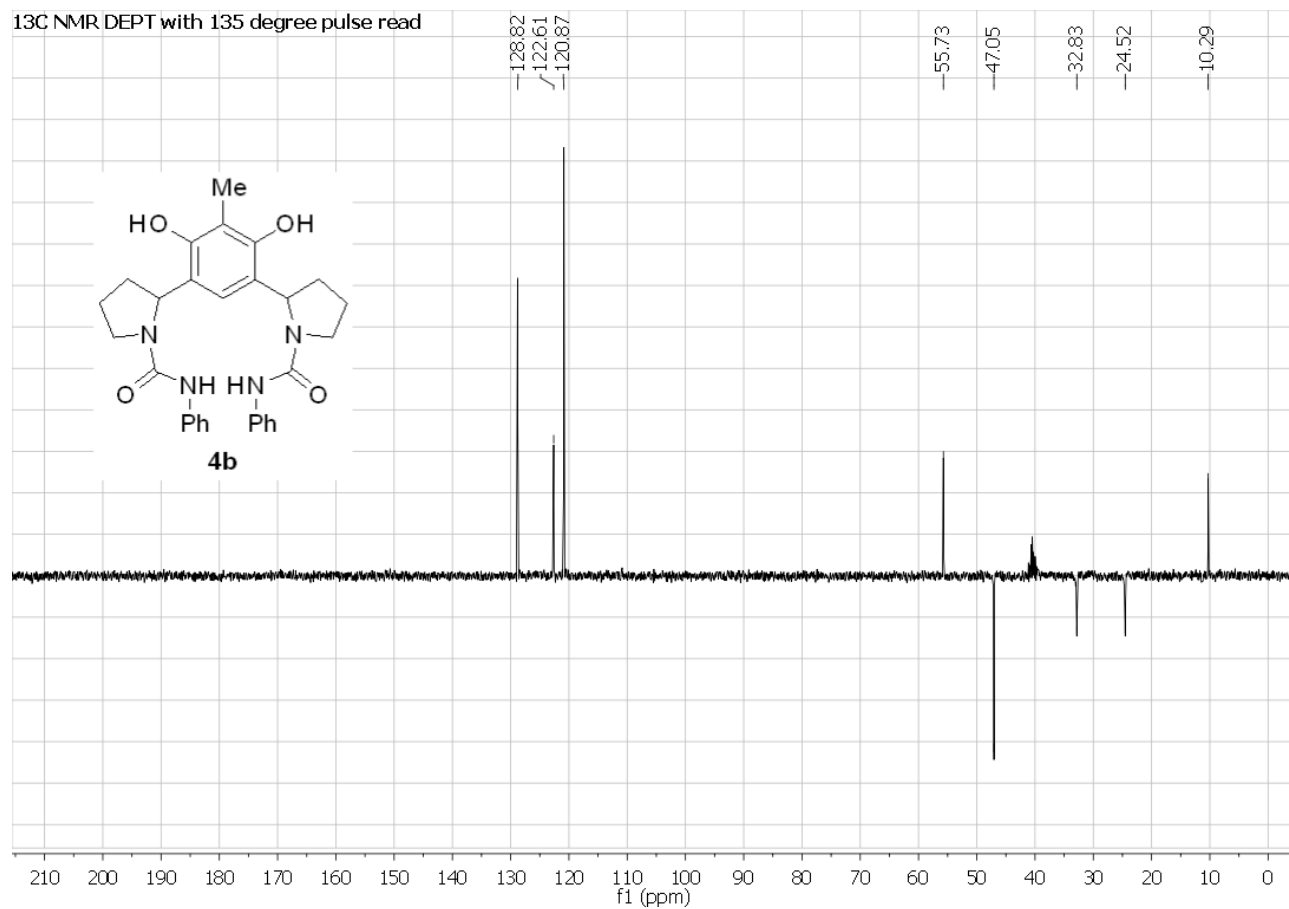


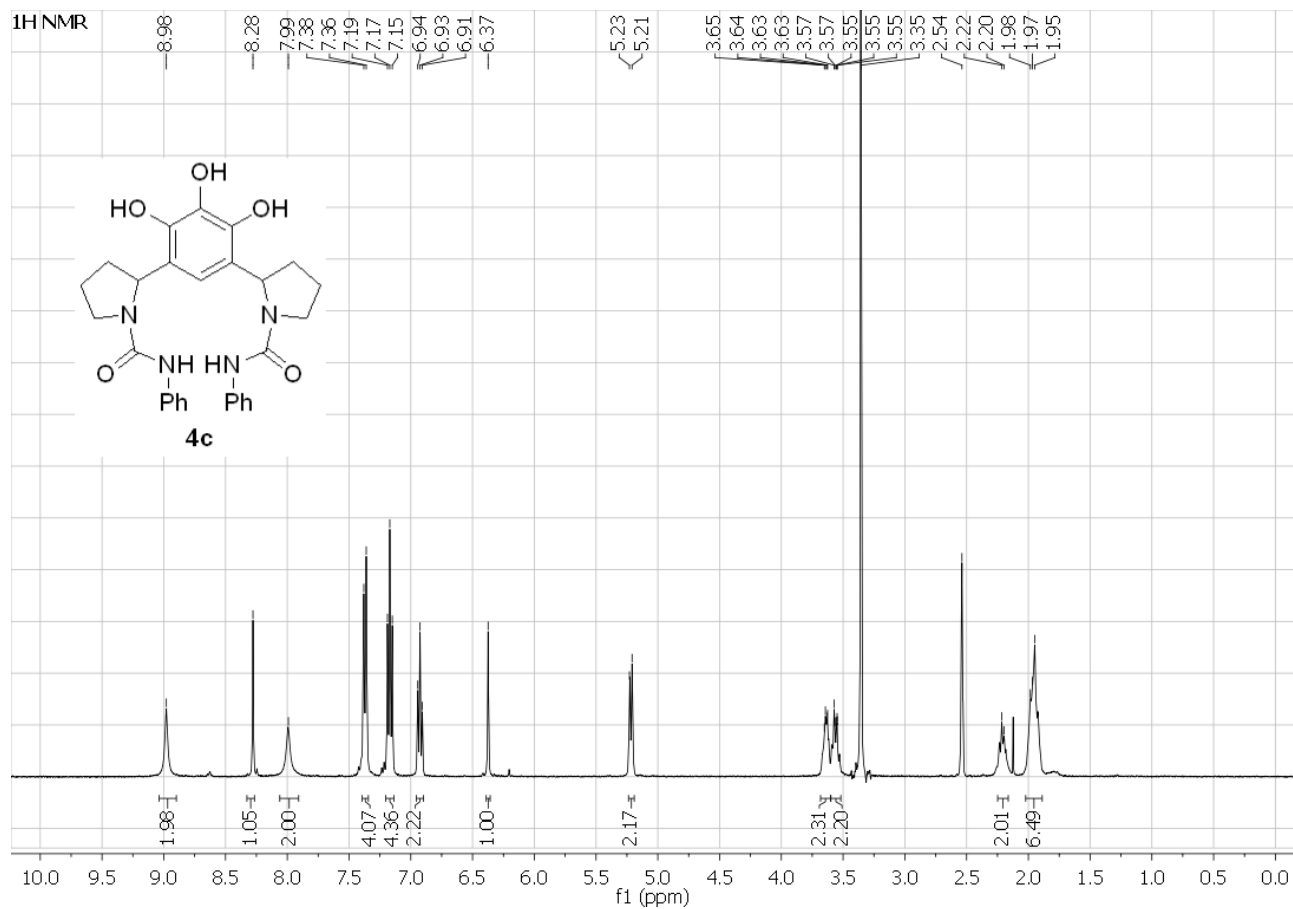


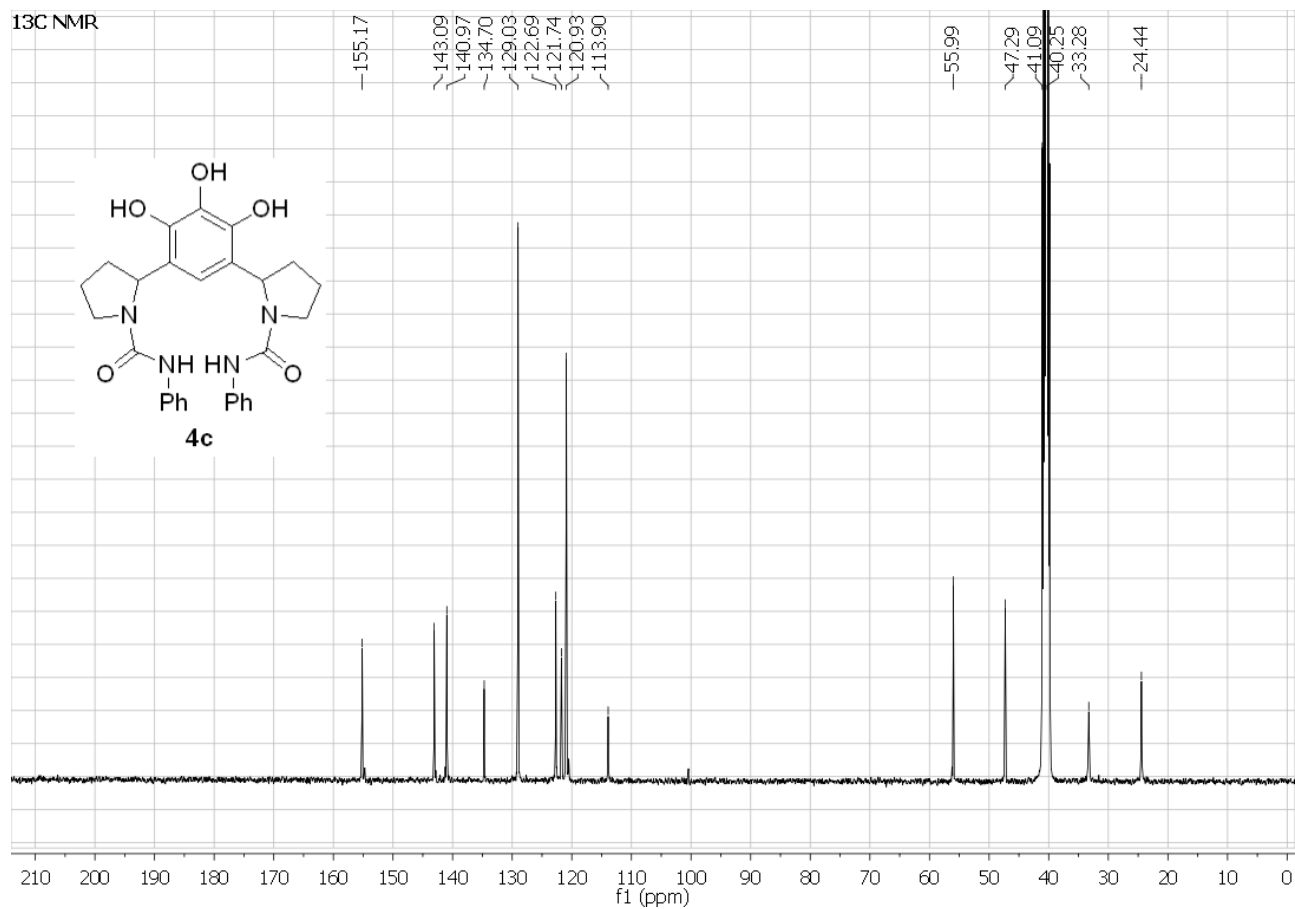


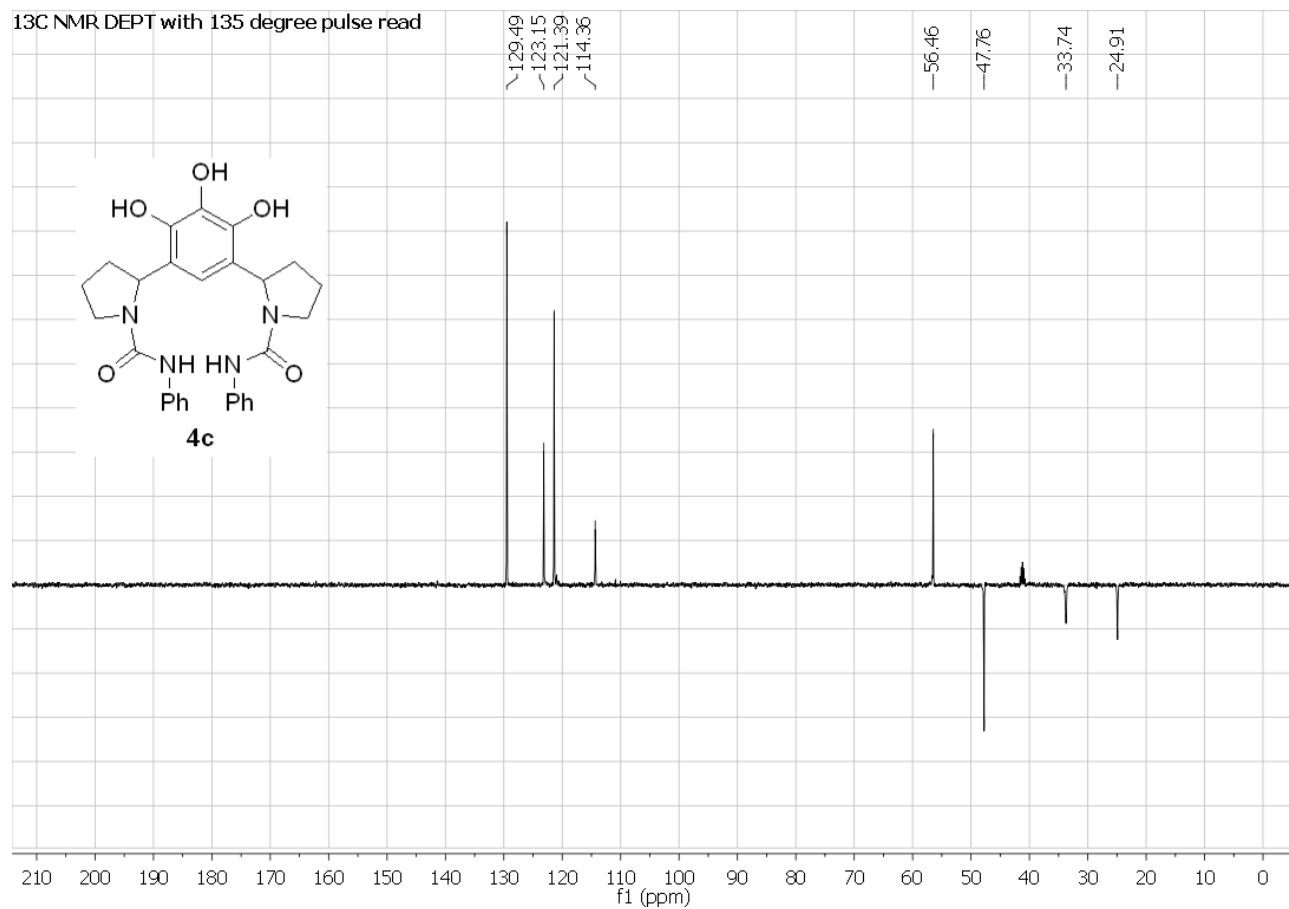












2. Parameters of the classical hydrogen bonds in crystal of compound 4b.

H-bond	ARU	D - H	H...A	D...A	D-H...A
O2A-H2A...O22B	-1+x,y,z	0.90(6)	1.74(6)	2.626(6)	165(5)
O2B-H2B...O22A	1+x,y,z	0.68(6)	2.05(6)	2.688(6)	156(6)
O4A-H4A...O9B	-1+x,y,z	0.76(4)	1.92(4)	2.655(6)	162(4)
O4B-H4B...O9A	1+x,y,z	0.92(8)	1.75(8)	2.633(6)	160(8)
N10A-H10A...O46	x,-1+y,z	0.88	2.15	2.927(6)	147
N10B-H10B...O41		0.88	2.25	3.012(6)	146
N23A-H23A...O21		0.88	2.33	3.162(6)	158
N23B-H23B...O43		0.88	2.29	3.116(6)	156
O43-H432...O22A		0.86(7)	2.08(7)	2.908(6)	159(7)
O43-H431...O11	$1-x,$ $1/2+y,1-z$	0.75(7)	2.09(7)	2.818(5)	164(8)
O46-H441...O21	x,1+y,z	0.84(7)	2.00(7)	2.827(6)	169(7)
O46-H442...O31		0.93(7)	1.86(7)	2.746(7)	159(6)