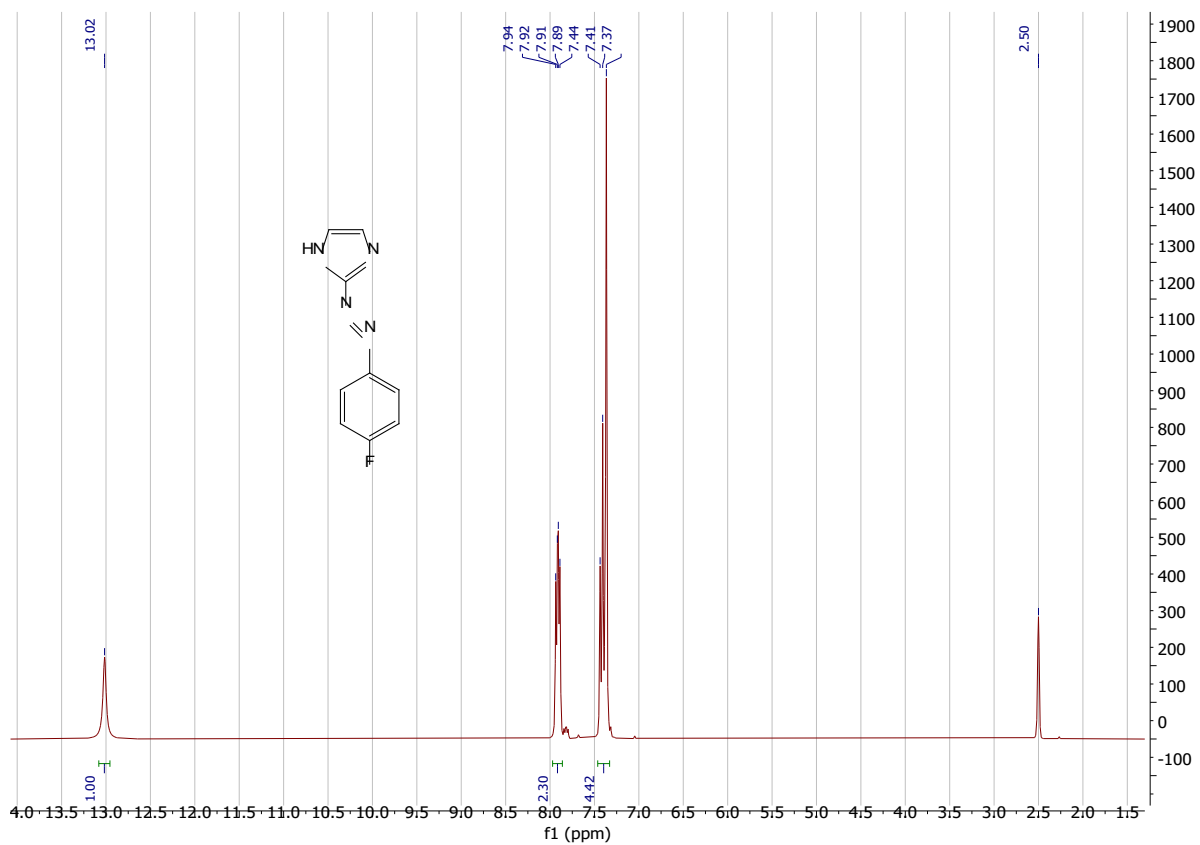


2 Anhang

2.1 Spektrenkatalog



Spektrum 1: ¹H-NMR, 2-((4-Fluorophenyl) diazenyl)-1H-imidazol (9)

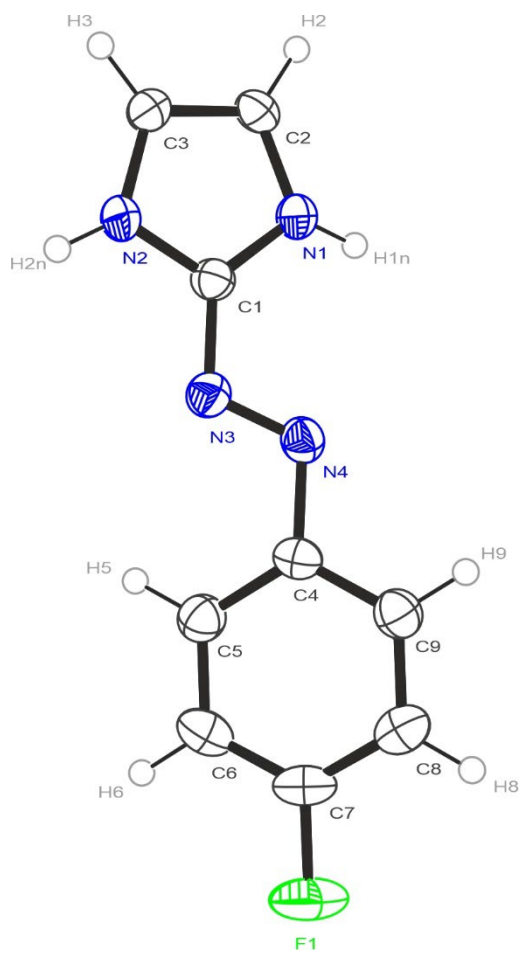
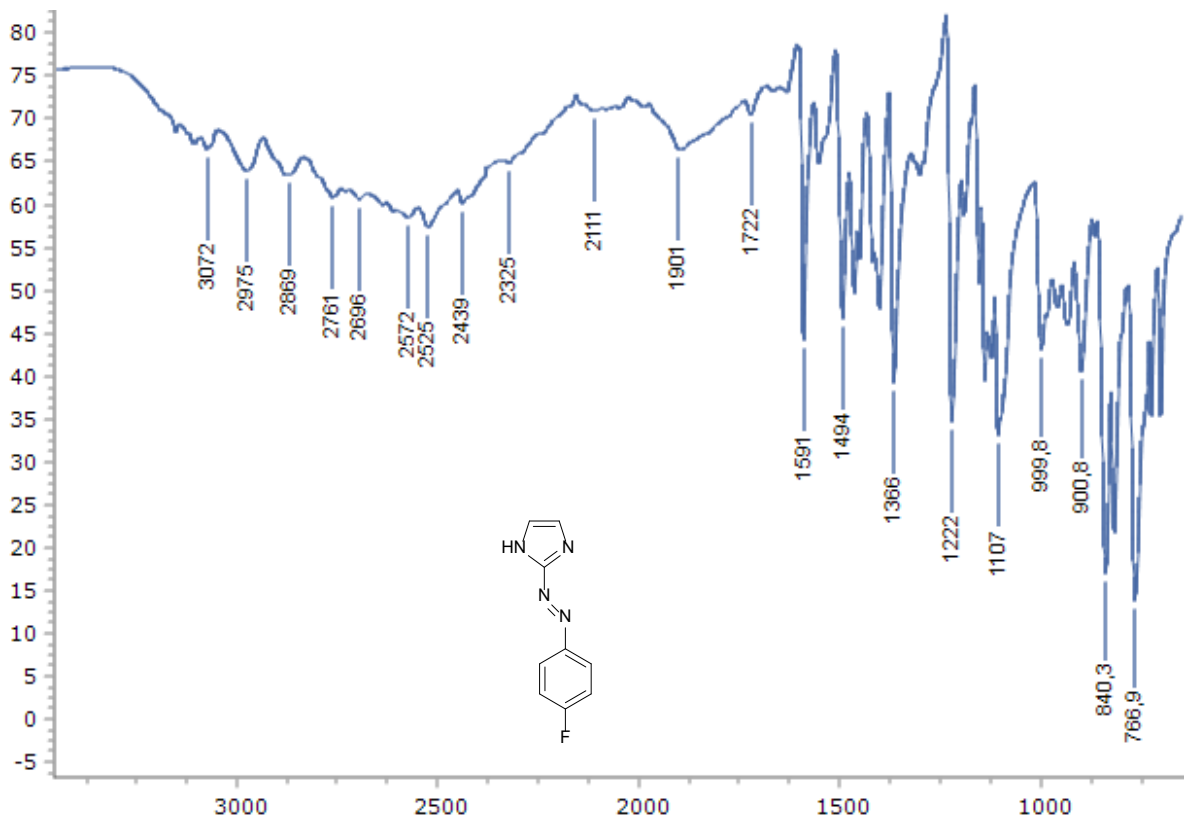


Abbildung 9: Kristallstruktur 2-((4-Fluorphenyl) diazenyl)-1H-imidazol (9)

Tabelle 3: Kristalldaten 2-((4-Fluorphenyl) diazenyl)-1H-imidazol (9)

Crystal data	
Chemical formula	<u>C₉H₇FN₄</u>
M_r	<u>190.19</u>
Crystal system, space group	<u>Triclinic, P</u>
Temperature (K)	<u>183</u>
a, b, c (Å)	<u>7.0756 (4), 7.7929 (5), 8.8199 (6)</u>
α, β, γ (°)	<u>70.801 (2), 74.9153 (19), 83.689 (2)</u>
V (Å ³)	<u>443.29 (5)</u>
Z	<u>2</u>
Radiation type	<u>Mo $K\alpha$</u>
μ (mm ⁻¹)	<u>0.11</u>
Crystal size (mm)	<u>0.16 × 0.11 × 0.08</u>
Data collection	
Diffractometer	<u>Bruker D8 QUEST PHOTON 100</u>
Absorption correction	<u>Multi-scan</u> <u>Bruker SADABS2014/5)</u>
T_{\min}, T_{\max}	<u>0.925, 0.971</u>
No. of measured, independent and observed [$I > 2\sigma(I)$] reflections	<u>10043, 1560, 1312</u>
R_{int}	<u>0.039</u>
$(\sin \theta/\lambda)_{\max}$ (Å ⁻¹)	<u>0.594</u>
Refinement	
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	<u>0.039, 0.100, 1.09</u>
No. of reflections	<u>1560</u>
No. of parameters	<u>136</u>
No. of restraints	<u>2</u>

H-atom treatment	<u>H atoms treated by a mixture of independent and constrained refinement</u>
$\Delta\rho_{\max}, \Delta\rho_{\min}$ (e Å ⁻³)	<u>0.19, -0.28</u>