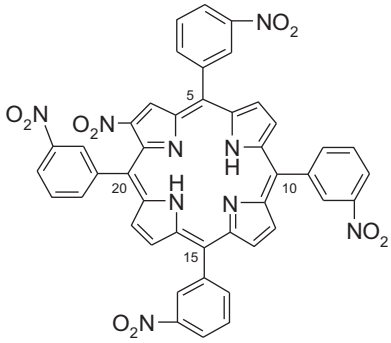
Spectral data of porphyrin derivative $C_{44}H_{25}N_9O_{10}$

Spectral Studies

2.1. Spectral Data of Porphyrins: Tetraphenyl and Analogous Porphyrins

Structure formula



NMR		IR	UV-visible			
Solvent	Peaks δ [ppm]/^nJ [Hz]	Peaks Wave number $\tilde{\nu}$ [cm^{-1}]	Solvent	Peaks λ [nm]/(ε [M^{-1} cm^{-1}]/log ε)	Remarks	Ref.
$CDCl_3$	**^{1}H NMR** −2.68 (s, 2H, 2 × NH), 7.87-8.10 (m, 4H, C_6H_4-NO_2), 8.50-8.61 (m, 4H, C_6H_4-NO_2), 8.64-8.80 (m) and 8.68 (s, inside multiplet) [6H, 4H of C_6H_4-NO_2 and 2H of pyrrole-H], 8.87-8.94 (m, 3H, pyrrole-H), 8.98 (d, 1H, J = 4.6, pyrrole-H), 8.99 (s, 1H, pyrrole-H), 9.08 (s, 4H, H^2-C_6H_4-NO_2)		$CHCl_3$	430 (5.34, Soret), 525.5 (4.22), 602 (3.73), 660.5 (3.84)		[07Wyr]

Symbols and abbreviations

Short Form	Full Form
NMR	nuclear magnetic resonance
IR	infrared
UV-Visible	ultraviolet–visible
δ	chemical shift
γ	absorption band
λ	wavelength
ε	molar absorptivity

Reference

[07Wyr] Wyrebek, P., Ostrowki, S.: J. Porphyrins Phthalocyanines **11**, 822–828 (2007)

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