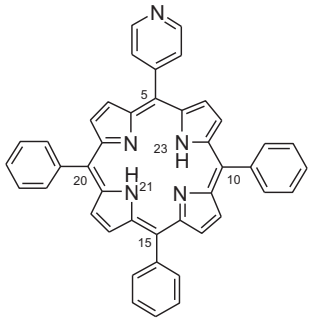
Spectral data of porphyrin derivative $C_{43}H_{29}N_5$

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** −2.82 (s, 2H, inner-NH), 7.75–7.80 (m, 9H, Ph-CH), 8.17 (d, J = 5.4, 2H, Py-CH), 8.21 (d, J = 6.6, 6H, Ph-CH), 8.79 (d, J = 4.2, 2H, Py-CH), 8.86–8.90 (m, 6H, Por-CH), 9.03 (s, 2H, Por-CH)	3446 (s), 1634 (w), 1590 (w), 1473 (w), 1396 (w), 1351 (w), 1070 (w), 970 (w), 798 (m), 710 (m), 657 (w)	CH_2Cl_2	416 (3.72), 513 (sh), 548 (2.37), 586 (4.38), 644 (4.20)	purple crystals	[12Sun]

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

References

[12Sun] Sun, L., Chen, H., Zhang, Z., Yang, Q., Tong, H., Xu, A., Wang, C: J. Inorg. Biochem. **108**, 47–52 (2012)

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