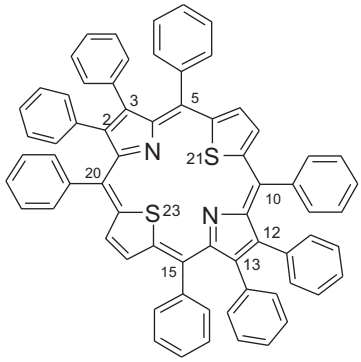
# Spectral data of porphyrin derivative $C_{68}H_{44}N_2S_2$

## Spectral Studies

### *2.1 Spectral Data of Porphyrins: Tetraphenyl and Analogous Porphyrins*

#### Structure formula




| NMR | | IR | UV-visible | | Remarks | Ref. |
|---|---|---|---|---|---|---|
| Solvent | Peaks $\delta$ [ppm]/$^nJ$ [Hz] | Peaks Wave number $\tilde{\nu}$[$cm^{-1}$] | Solvent | Peaks $\lambda$ [nm]/($\varepsilon$ [$M^{-1}$ $cm^{-1}$]/log $\varepsilon$) | | |
| $CDCl_3$ | **$^1$H NMR**<br>6.90 (m, 8H, Ar),<br>7.06 (m, 4H, Ar),<br>7.21 (m, 8H, Ar),<br>7.52 (m, 8H, Ar),<br>7.71 (m, 8H, Ar),<br>7.80 (m, 4H, Ar),<br>9.23 (m, 4H, b-thiophene) | 3420,<br>3230,<br>2963,<br>741 | toluene | 440(21.2 × $10^{-4}$),<br>519(1.9 × $10^{-4}$),<br>637(0.22 × $10^{-4}$),<br>700(0.31 × $10^{-4}$) | | [04Aga] |

#### 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

[04Aga] Agarwal, N., Ravikanth, M.: Tetrahedron **60**, 4739–4747 (2004)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