

# Turkish Journal of Chemistry

Turkish Journal

FT-IR and FT-Raman Studies on 3-Aminophthalhydrazide and N-Aminophthalimide

of

Chemistry

N. PUVIARASAN, V. ARJUNAN and S. MOHAN  
Raman School of Physics, Pondicherry University, Pondicherry,  
605 014, INDIA  
e-mail: s<sub>m</sub>ohan@lycos.com

 [Keywords](#)  
 [Authors](#)

**Abstract:** The FT-infrared ( $400\text{-}4000\text{ cm}^{-1}$ ) and FT-Raman ( $100\text{-}3500\text{ cm}^{-1}$ ) spectra of N-aminophthalimide and 3-aminophthalhydrazide were recorded. The observed frequencies were assigned to various modes of vibrations on the basis of normal coordinate analysis, assuming  $C_s$  point group symmetry. The potential energy distribution associated with normal modes is also reported. The assignments of fundamental vibrations agree well with the calculated frequencies.

**Key Words:** 3-aminophthalhydrazide, N-aminophthalimide, FTIR, FT-Raman and normal coordinate analysis.



[chem@tubitak.gov.tr](mailto:chem@tubitak.gov.tr)

[Scientific Journals Home](#)  
[Page](#)

---

Turk. J. Chem., **26**, (2002), 323-334.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem., vol.26, iss.3.](#)