***Supporting Information***

**A synthesis of thioxo[3.3.3]propellanes from acenaphthoquinone-malononitrile adduct, primary amines and CS2 in water**

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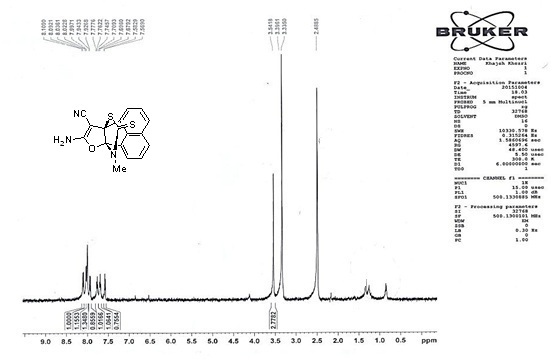
1. Molecular structure of product **6l**, Figure 1………………………………………….2

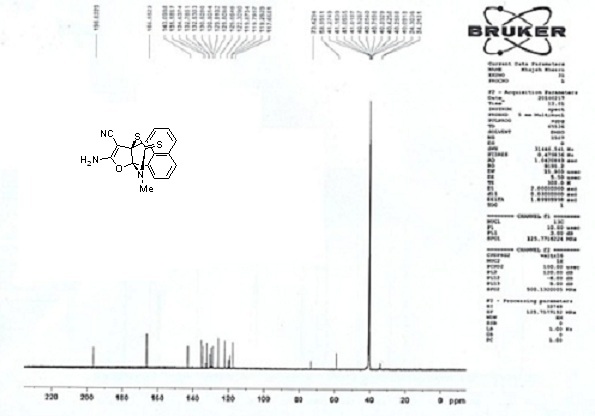
2. 1H and 13C NMR Spectra of the products **6a-m**…………………………………….....3

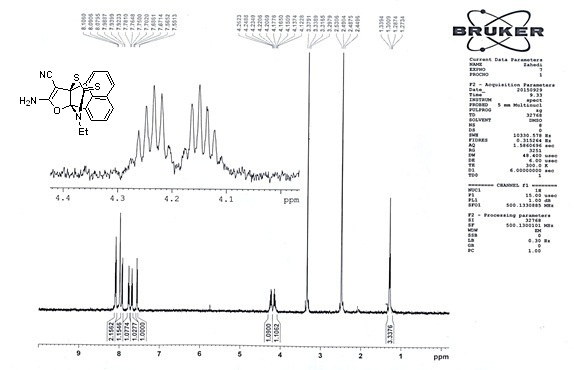


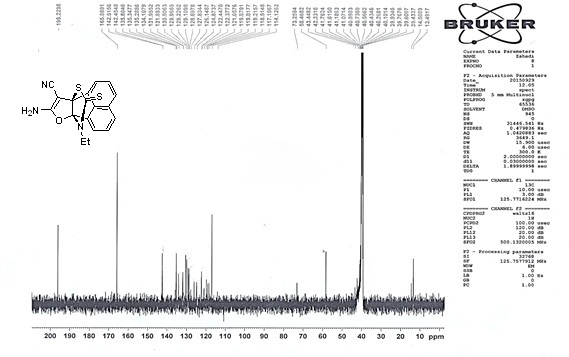
**Fig. 1.** Molecular structure and numbering scheme of **6l**; the thermal ellipsoids are drawn at the 40% probability level.

**S1:** 1H and 13C NMR spectra of 8-Amino-12-methyl-11-thioxo-9*a*,6*b* (epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6a**)

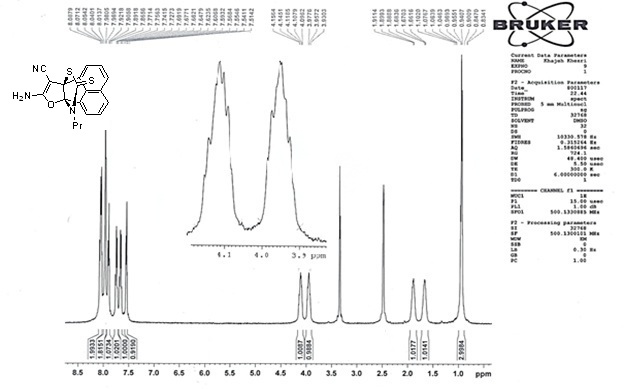
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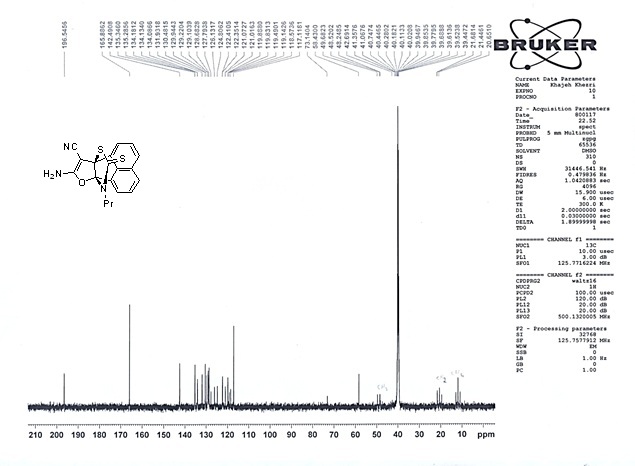
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**S2:** 1H and 13C (C-H Coupling) NMR spectra of 8-Amino-12-ethyl-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6b**)

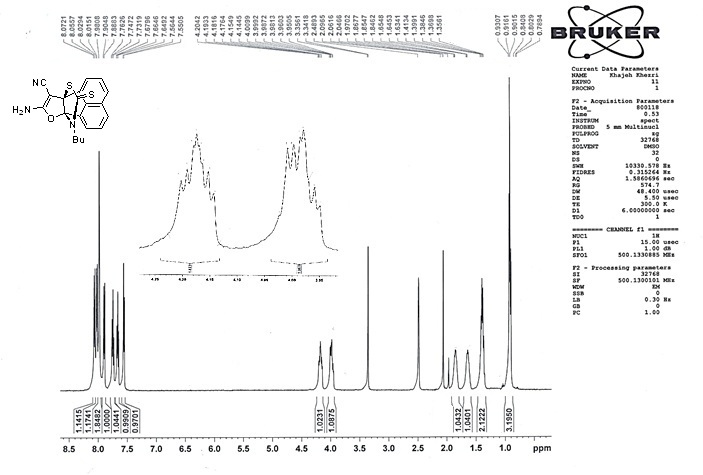


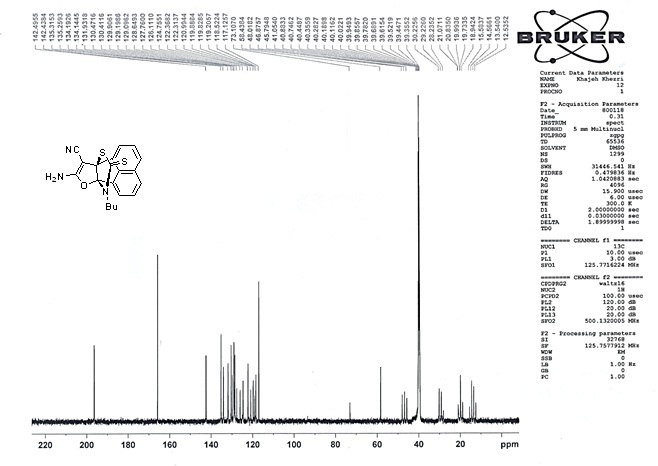
**S3:** 1H and 13C (C-H Coupling) NMR spectra of 8-Amino-12-propyl-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6c**)



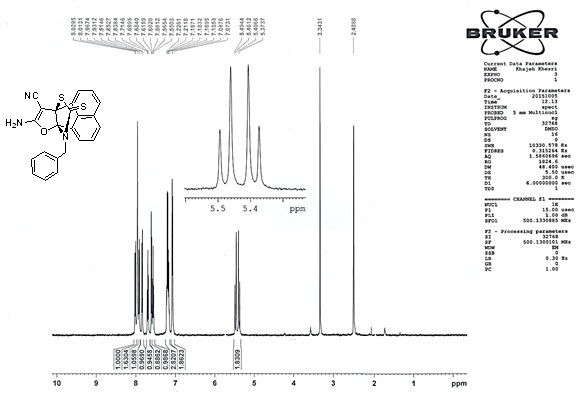


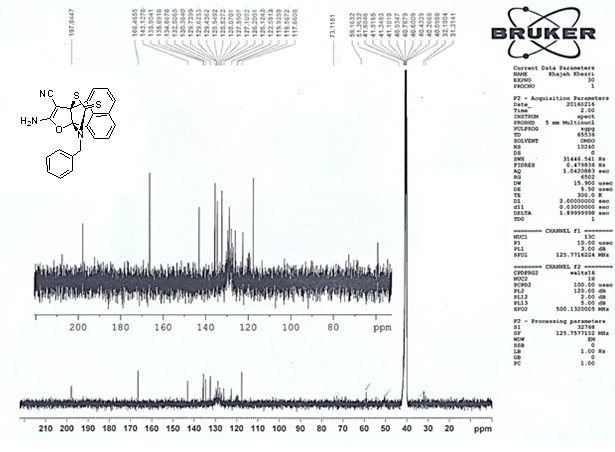
**S4:** 1H and 13C (C-H Coupling) NMR spectra of 8-Amino-12-butyl-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6d**)



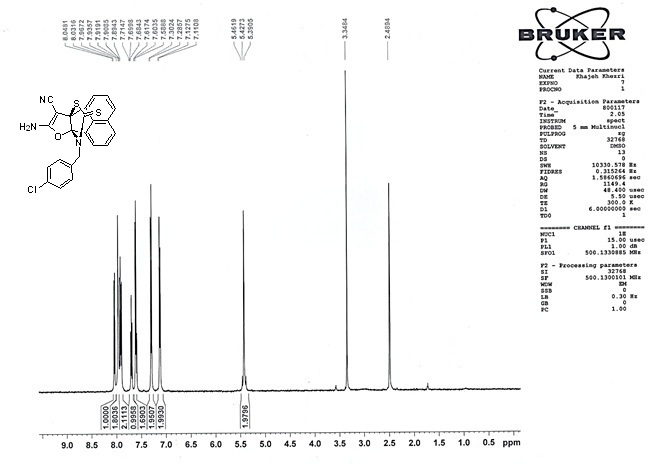


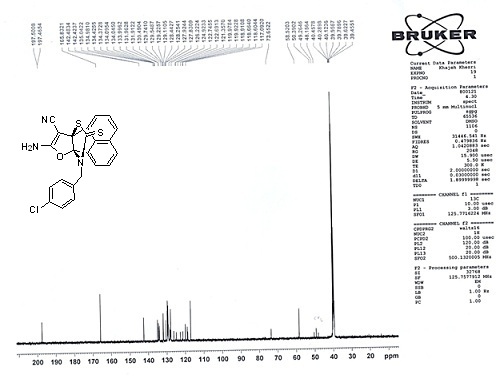
**S5:** 1H and 13C (C-H Coupling) NMR spectra of 8-Amino-12-benzyl-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6e**)



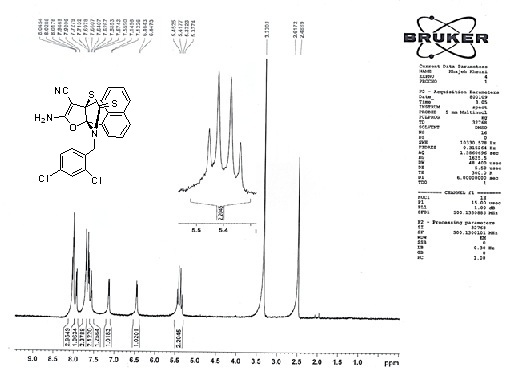


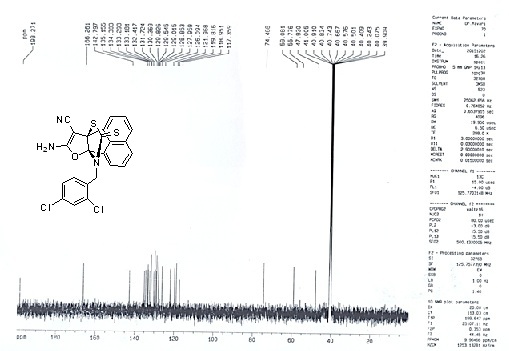
**S6:** 1H and 13C (C-H Coupling) NMR spectra of 8-Amino-12-(4-chlorobenzyl)-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6f**)

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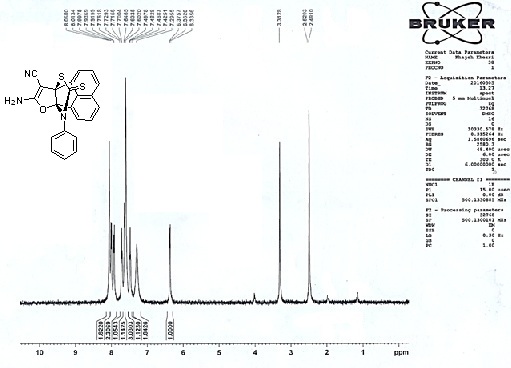
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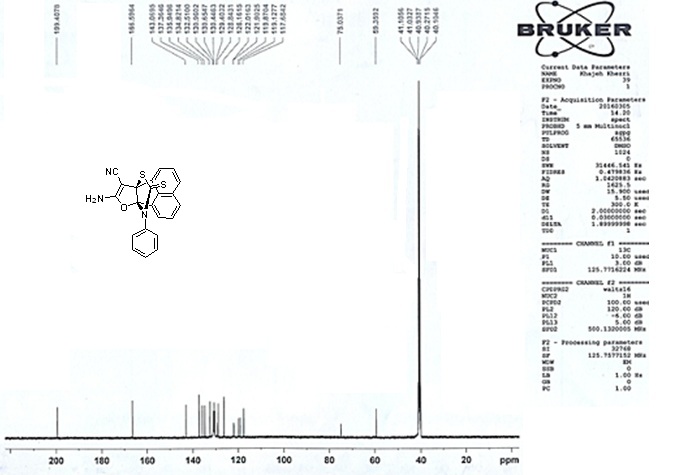
**S7:** 1H and 13C NMR spectra of 8-Amino-12-(2,4-dichlorobenzyl)-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6g**)



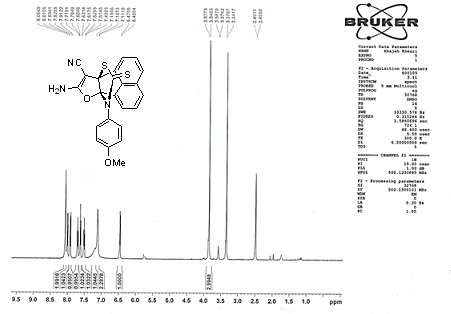


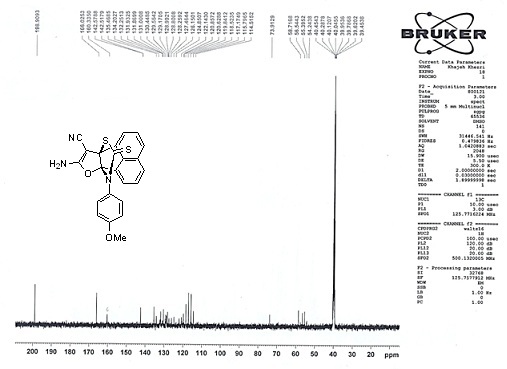
**S8:** 1H and 13C NMR spectra of 8-Amino-12-phenyl-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6h**)



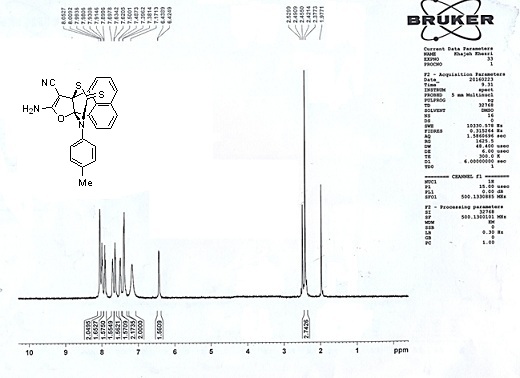


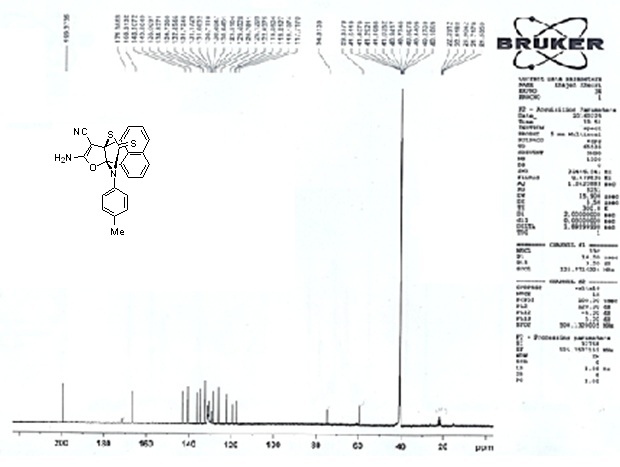
**S9:**1H and 13C (C-H Coupling) NMR spectra of 8-Amino-12-(4-methoxyphenyl)-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6i**)

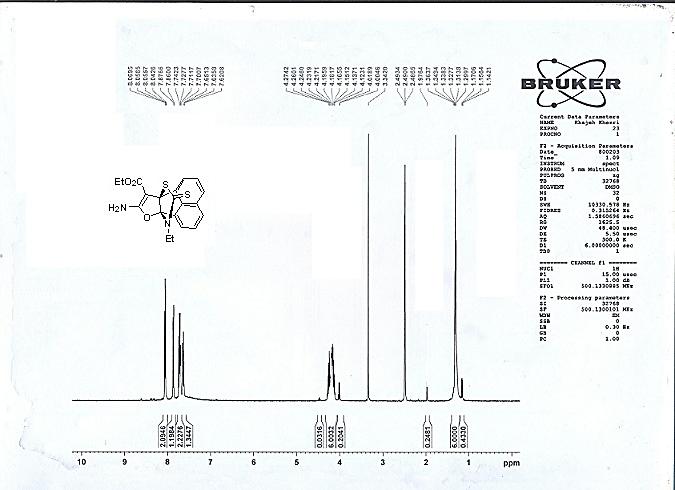


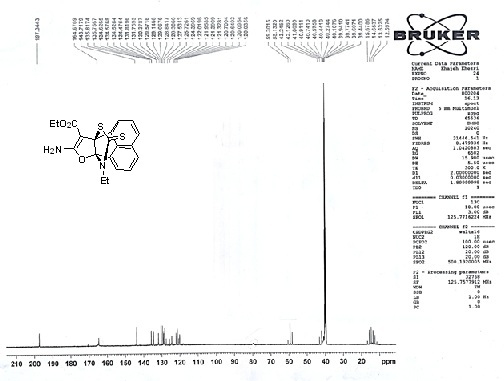


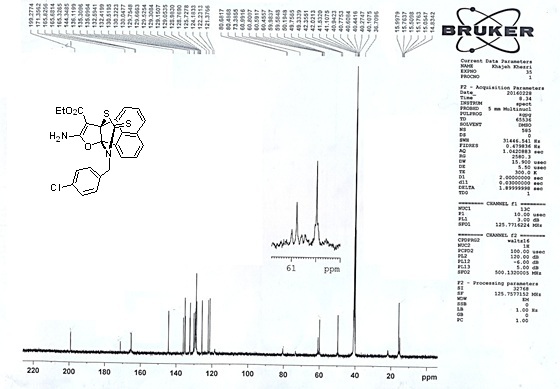
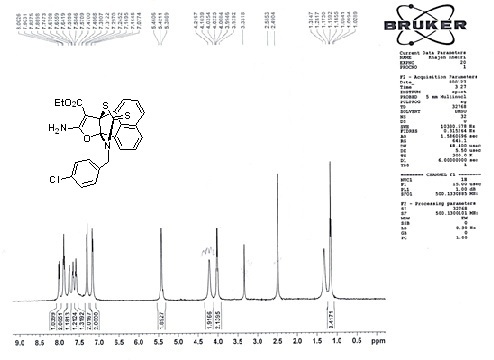
**S10:** 1H and 13C NMR spectra of 8-Amino-11-thioxo-12-(p-tolyl)-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carbonitrile (**6j**)





**S11:** 1H and 13C (C-H Coupling) NMR spectra ofEthyl-8-amino-12-ethyl-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carboxylate (**6k**)****

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**S12:** 1H and 13C NMR spectra ofEthyl-8-amino-12-(4-chlorobenzyl)-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carboxylate (**6l**)

**S13:** 1H and 13C NMR spectra of Ethyl-8-amino-12-(4-methoxyphenyl)-11-thioxo-9*a*,6*b*-(epithiomethanoimino)acenaphtho[1,2-*b*]furan-9-carboxylate (**6m**)

