

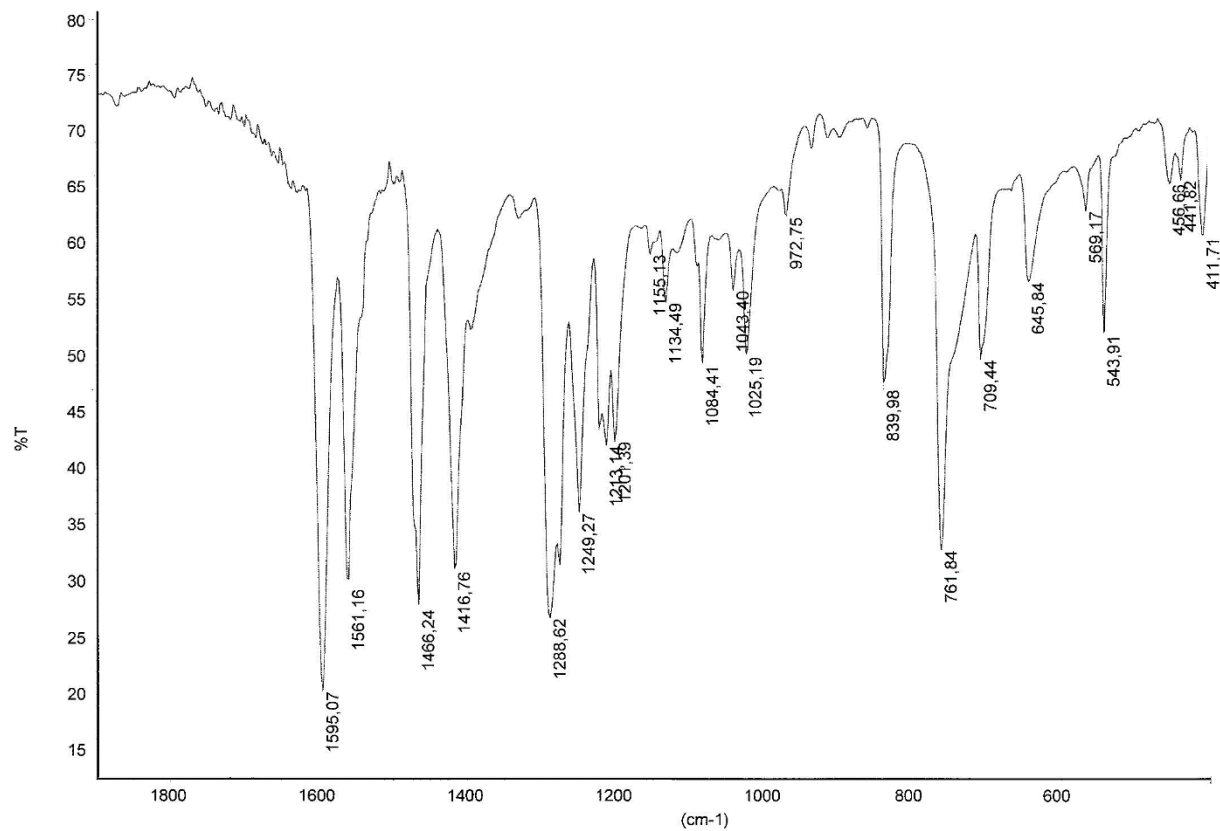
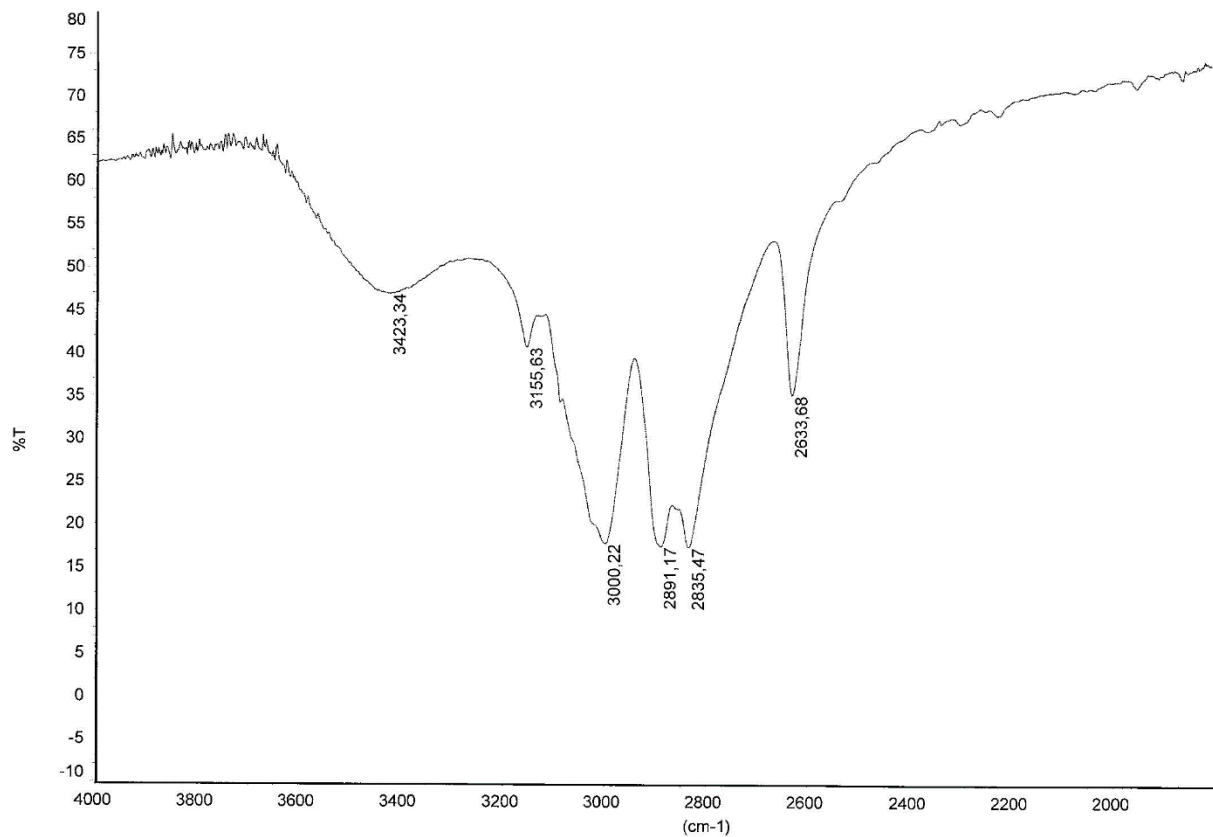
Synthesis and crystal structure of a pyrithione derivative: bis{2-[(1-oxidopyridin-2-yl)sulfanyl]-4,5-dihydro-1*H*-imidazol-3-ium} tetrachlorocuprate(2-)

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Supplementary File

Copies of IR and ¹H NMR spectra of compounds **1** and **1a**

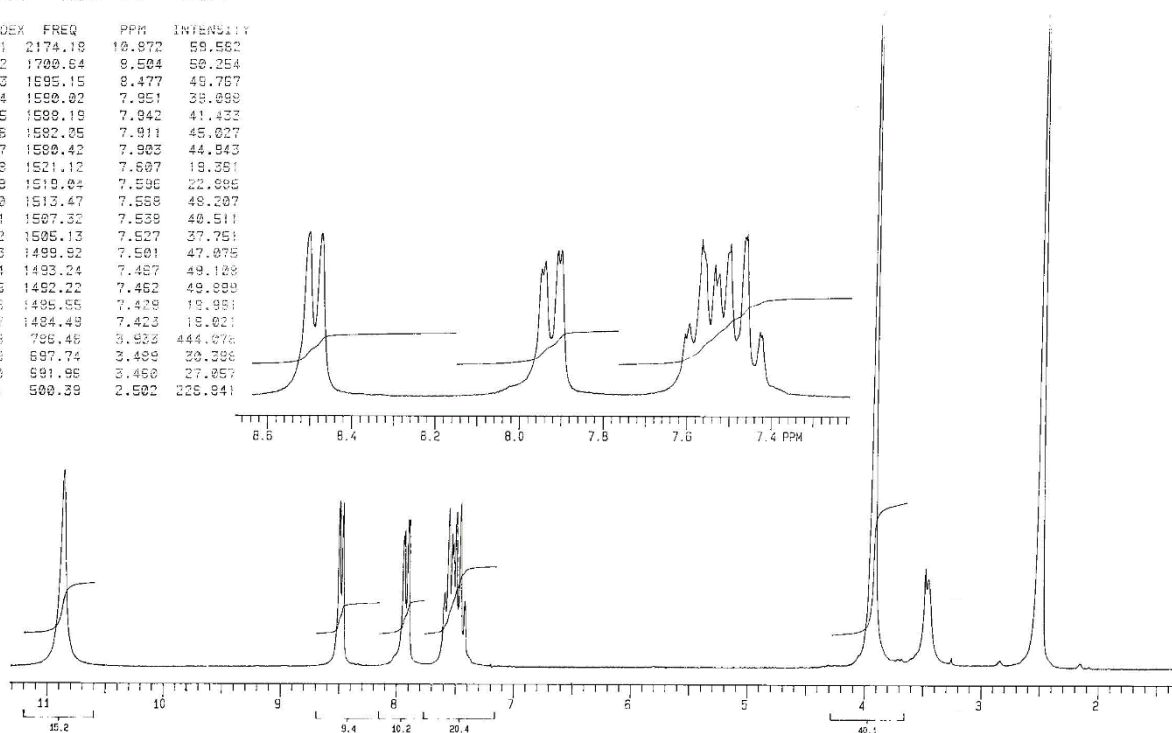
FT-IR spectrum (KBr) of 2-[(4,5-dihydro-1*H*-imidazol-2-yl)thio]pyridine 1-oxide hydrochloride (**1**)



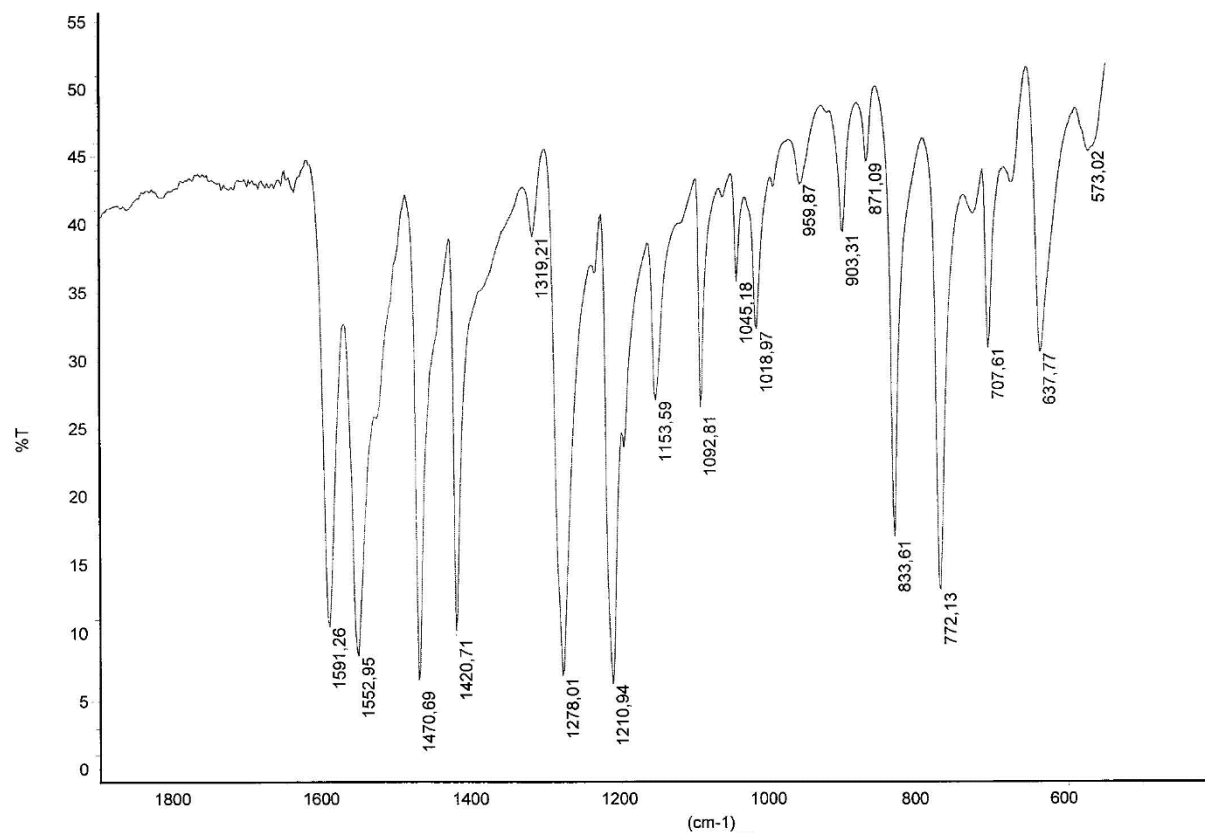
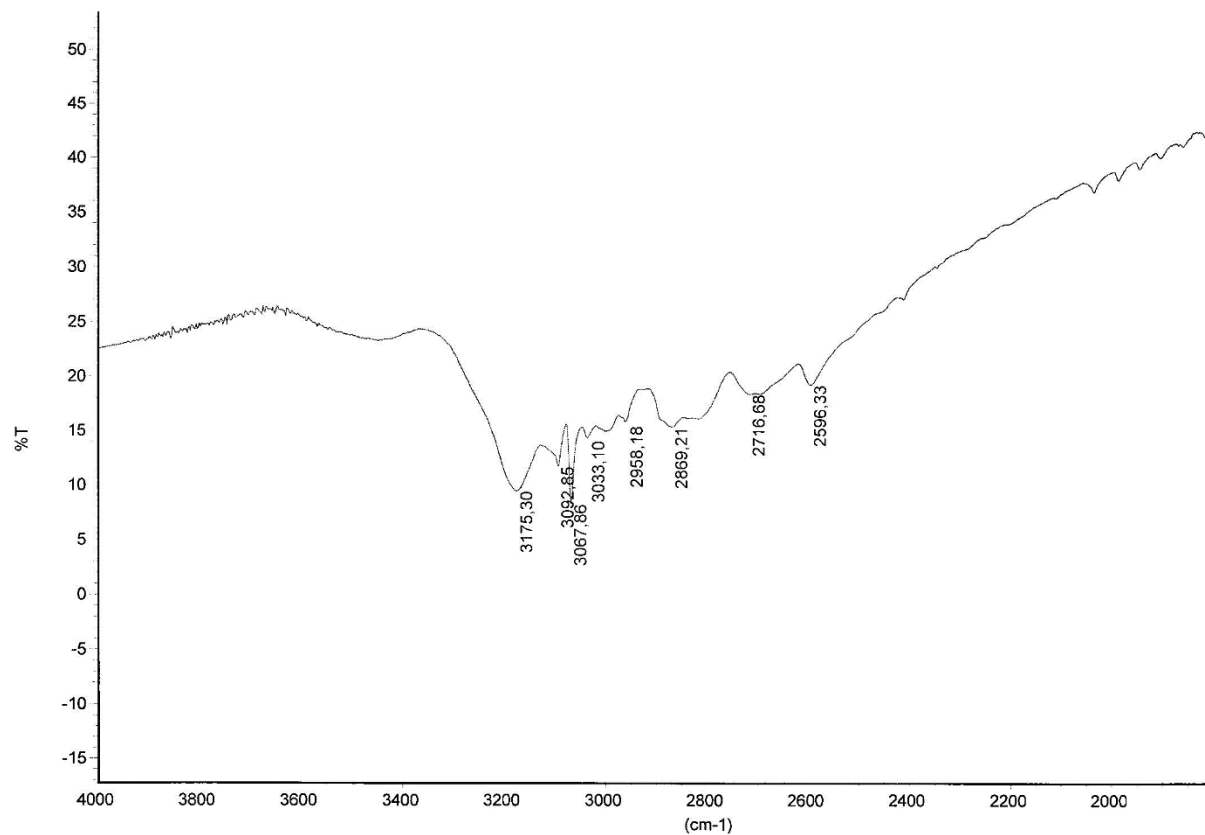
¹H NMR (200 MHz, DMSO-*d*₆) spectrum of 2-[(4,5-dihydro-1*H*-imidazol-2-yl)thio]pyridine 1-oxide hydrochloride (1)

SPECTRAL LINES FOR TH- 6.70
 RFL- 560.4 RFP- 499.9

INDEX	FREQ	PPM	INTENSITY
01	2174.18	10.972	59.562
02	1700.64	9.504	50.254
03	1695.15	9.477	49.767
04	1590.02	7.951	39.099
05	1588.19	7.942	41.433
06	1582.05	7.911	45.027
07	1580.42	7.903	44.943
08	1521.12	7.607	19.351
09	1519.04	7.596	22.895
10	1513.47	7.558	48.207
11	1507.32	7.539	40.511
12	1505.13	7.527	37.751
13	1499.52	7.501	47.075
14	1493.24	7.487	49.128
15	1482.22	7.462	49.889
16	1495.55	7.428	19.981
17	1484.49	7.423	16.021
18	796.46	3.932	444.076
19	697.74	3.499	30.386
20	691.95	3.460	27.057
21	500.39	2.502	225.941



FT-IR spectrum (KBr) of bis[2-[(1-oxidopyridin-2-yl)sulfanyl]-4,5-dihydro-1H-imidazol-3-ium} tetrachlorocuprate(2-) (**1a**)



^1H NMR (200 MHz, $\text{DMSO-}d_6$) spectrum of bis{2-[(1-oxidopyridin-2-yl)sulfanyl]-4,5-dihydro-1*H*-imidazol-3-ium} tetrachlorocuprate(2-) (**1a**)

SPECTRAL LINES FOR ^1H = 5.34
RFL = 560.4 RFP = 499.9

INDEX	FREQ	PPM	INTENSITY
01	2139.00	10.691	8.015
02	2136.69	10.685	7.782
03	1700.36	8.503	9.739
04	1694.70	8.475	10.097
05	1596.36	7.933	7.158
06	1579.32	7.898	7.657
07	1513.55	7.569	8.933
08	1507.61	7.539	7.399
09	1499.55	7.499	7.050
10	1492.22	7.462	8.421
11	790.77	3.954	31.150
12	673.93	3.370	41.735
13	499.94	2.500	179.158

