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Bis(N,N-dibutylthiocarbamoyl) Disulfide

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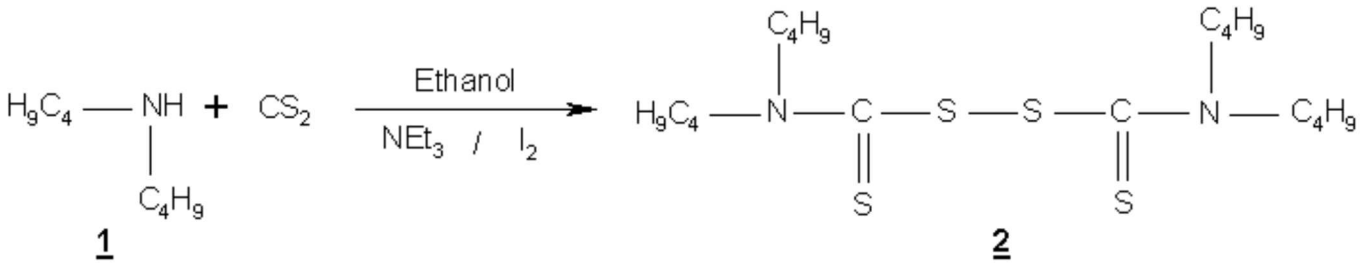

1 2

This experiment is performed according to literature method [1-3]. N,N-Dibutylamine **1** (20 mL, 0.024 mol) in ethanol solution and triethylamine (6.65 g, 0.048 mol) were cooled to 5°C under stirring. Then carbon disulfide (3.65 g. 0.48 mol) was added to the solution. After 1 hour of stirring, solid iodine (2,8 g, 0.022 mol) was added in portions and stirred until the colour disappeared completely. Then a methanolic solution of iodine was added dropwise until a faint colour persists. Excess of iodine was neutralised with $Na_2S_2O_3$ solution. The product was extracted with diethyl ether, washed thrice with water, dried over Na_2SO_4, filtered, and diethylether was evaporated at room temperature to give liquid compound **2**. Yield: 83%.

H^1 NMR (CCl_4) d (ppm): 1,00 (t, 12H, CH_3-); 1,48 (m, 16H, -CH_2-CH_2-); 2,73 (s, 8H, N-CH_2).

^{13}C NMR ($CDCl_3$) d (ppm): 193 (-C=S), 55 (N-CH_2), 20 (CH_3).

IR (KBr , cm^{-1}) : 3000 (-S-S-); 1100 (C=S).

MS (m/z): 408 $[M]^+$.

U.V : l max = 280 nm (-C=S).

References

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Sample Availability: Available from the authors and from MDPI.

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