

LITERATURE CITED

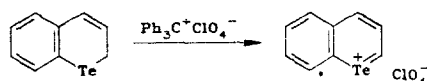
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1-TELLURACHROMYLIUM PERCHLORATE

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Derivatives of tellurapyrylium [1] and 1-tellurachromylium [2] cations were obtained relatively recently from the corresponding tellurapyrones and tellurachromones. We have synthesized the parent representative of 1-tellurachromylium salts, viz., 1-tellurachromylium perchlorate (I), by treatment of tellurachromene with trityl perchlorate in CF_3COOH :



A mixture of 2.44 g (10 mmole) of tellurachromene and 3.43 g (10 mmole) of trityl perchlorate in 50 ml of anhydrous trifluoroacetic acid was refluxed for 30 min. The triphenylmethane that precipitated when the mixture was cooled was removed by filtration, and the filtrate was evaporated on a water bath to a volume of 10 ml. The solution was cooled, and the crystals of I were removed by filtration, washed successively with 5 ml of cold trifluoroacetic acid and three times with 10 ml portions of absolute ether, and dried to give 1.2 g (35%) of fine dark-violet crystals with mp 160-162°C (dec.). IR spectrum (in mineral oil): 1670, 1640, 1580, 1530, 1320, 1260, 1150, 1100, and 760 cm^{-1} . UV spectrum (in CF_3COOH), λ_{max} , nm (log ϵ): 327 (3.99), 410 (3.31), and 560 (2.58). Found, %: C 31.6, H 2.2. $\text{C}_9\text{H}_7\text{ClO}_4\text{Te}$. Calculated, %: C 31.5, H 2.0.

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