

6-Chloro-2-trichloromethyl-4-quinazolone (Ic), mp 252°–253° C (from a mixture of acetone and water). Found, %: C 36.48; H 1.34. Calculated for $C_9H_4Cl_4N_2O$, %: C 36.27; H 1.35%.

REFERENCES

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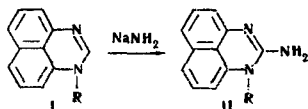
PERIMIDINE IN THE CHICHIBABIN REACTION

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We have established that N-substituted perimidines (I) readily react with sodium amide in xylene or, which is somewhat better, methylaniline, forming the previously unknown 2-aminoperimidines (II) in high yield.



A solution of 0.01 mole of I in 10 ml of dry dimethylaniline was added with stirring to a suspension of 0.015 mole of $NaNH_2$ in 5 ml of dimethylaniline heated to 70°–80° C. After this, the temperature was slowly raised to 110°–115° C. The reaction took place vigorously and

was practically complete after 10–15 min. Cooling and the treatment with water (10 ml) of the sodium derivative of the amine were carried out in an atmosphere of nitrogen. The amine formed was filtered off, washed with water, benzene, and petroleum ether, and recrystallized from water.

The 2-aminoperimidines (see table) form colorless crystalline substances of extremely high basicity ($pK_a^{25} \sim 8.0$ in 10% aqueous solution). They are readily acylated with the formation of 2-acylamino derivatives, but give azomethines on being boiled with p-nitrobenzaldehyde only with extreme difficulty.

We shall describe the synthesis and properties of I later.

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2-Aminoperimidines (II)

| R | Mp, °C | Empirical formula | Found, % | | | Calculated, % | | | Yield, % | Mp, °C of the acetyl derivative (from water) |
|---------------------------------|---------|--|----------|------|-------|---------------|------|-------|----------|--|
| | | | C | H | N | C | H | N | | |
| CH ₃ | 236–237 | C ₁₂ H ₁₁ N ₃ | 72.85 | 5.58 | 21.29 | 73.07 | 5.62 | 21.30 | 95 | 218–219 |
| C ₂ H ₅ | 227–228 | C ₁₃ H ₁₃ N ₃ | 73.77 | 5.89 | 19.74 | 73.90 | 6.20 | 19.90 | 91 | 206–207 |
| n-C ₃ H ₇ | 167–168 | C ₁₄ H ₁₅ N ₃ | 74.67 | 6.81 | 18.87 | 74.63 | 6.71 | 18.65 | 70 | 151–152 |