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Eriochrome Cyanine R,

$C_{23}H_{15}Na_3O_9S$ 536.40 CAS RN[®]: 3564-18-9.—Dark, red-brown powder. Freely soluble in water; insoluble in alcohol.

Solubility: 200 mg in 100 mL of water yields a solution that remains clear and free from undissolved matter for 30 minutes.

Loss on Drying (731): Dry it in vacuum over silica gel to constant weight: it loses not more than 2% of its weight.

Residue on Ignition (Reagent test): 0.5 g, treated with 1 mL of sulfuric acid and 2 mL of nitric acid, yields between 42.0% and 44.0% of the dry weight (theoretical yield is 42.9% of Na_2SO_4).

Sensitiveness: Add 2 mL of a solution (1 in 1000) to 1 mL of aluminum sulfate solution (1 in 10,000), heat at $37 \pm 3^\circ$ for 5 minutes, cool, and add 1 mL of sodium acetate TS: a strong red to red-violet color is produced in not more than 5 minutes.

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
ERIOCHROME CYANINE R	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

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