

2-Ethyl Anthraquinone

Anthraquinone working-material intermediate used in industrial hydrogen peroxide production.

CAS No. 84-51-5	EC / List No. 201-535-4	Transport Class 9 — Environmentally hazardous
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Product Information

2-Ethyl anthraquinone is an anthraquinone derivative with formula C₁₆H₁₂O₂ and molecular weight 236.27 g/mol. In hydrogen peroxide manufacture it forms part of the recyclable working solution, undergoing hydrogenation and oxidation within the anthraquinone process.

Specifications

Parameter	Specification
Appearance — Grades I / II	Pale yellow flakes or powder
Appearance — Grade III	Orange-red to brown lumps or powder
Initial melting point, dry basis — I / II / III	≥107 / ≥107 / ≥106 °C
Assay — Grades I / II	≥98.50 / ≥98.00 % wt
Benzene insolubles — I / II / III	≤0.05 / ≤0.10 / ≤2.00 % wt
Moisture — I / II / III	≤2.00 / ≤0.20 / ≤2.00 % wt
Iron — Grades I / II	≤5.0 / ≤10.0 mg/kg
Chlorine — Grades I / II	≤10.0 / ≤40.0 mg/kg
Sulfur — Grades I / II	≤10.0 / ≤20.0 mg/kg

Values are grade-specific supply limits from the local TDS; the I / II / III order is maintained where shown. No assay or trace-metal limit is assigned here to Grade III.

Applications

Hydrogen peroxide manufacture: Working material in the anthraquinone hydrogenation–oxidation process.

Chemical intermediates: Intermediate for anthraquinone-derived dyes and related chemical synthesis.

Photosensitive systems: Component for evaluating anthraquinone-containing resin and polymer formulations.

Packaging / Storage

Item	Information
Packing	25 kg drums
Storage	Keep tightly closed in a dry, well-ventilated area at 5–25°C, away from strong oxidizing agents. Protect from moisture and excessive heat.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com