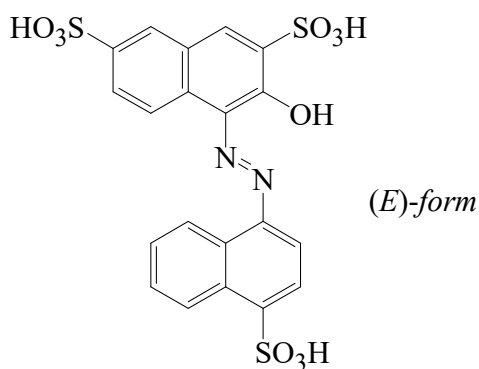




>>Entry Name: **Amaranth**

Synonym(s): 3-Hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-2,7-naphthalenedisulfonic acid, 9Cl. C.I. Acid red 27, 8Cl. Amaranth R. Amaranth S. Azorubine S. Bordeaux S. C.I. 16185. C.I. Food Red 9. FD and C Red No. 2. E 123



CAS Registry Number: 642-59-1

Extra CAS Registry Numbers(s): 915-67-3

Molecular Formula: C₂₀H₁₄N₂O₁₀S₃

Molecular Weight: 538.536

Accurate Mass: 537.981058

Percentage Composition: C 44.61%; H 2.62%; N 5.20%; O 29.71%; S 17.86%

General Statement: Usually obt. as tri-Na salt, to which most synonyms refer

Use/Importance: Used in dyeing, colour photography and food colouring. Used as its complex with Th in indirect photometric detn. of F⁽⁻⁾ and S²⁽⁻⁾

Physical Description: Dark red-brown powder (as tri-Na salt)

Solubility: Sol. H₂O, EtOH, 2-ethoxyethanol

Other Data: Banned by FDA for use in food, drugs and cosmetics. Permitted in the UK and some other countries

Hazard & Toxicity: Exp. weak reprod. and teratogenic effects (conflicting data)

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