

## RED 2G

Prepared at the 28th JECFA (1984), published in FNP 31/1 (1984) and in FNP 52 (1992). Metals and arsenic specifications revised at the 59th JECFA (2002). An ADI of 0-1 mg/kg bw was established at the 25th JECFA (1981)

### SYNONYMS

CI Food Red 10, Azogermanine, CI (1975) No. 18050, INS No. 128

### DEFINITION

Consists essentially of disodium 8-acetamido-1-hydroxy-2-phenylazo-3,6-naphthalenedisulfonate and subsidiary colouring matters together with sodium chloride and/or sodium sulfate as the principal uncoloured components.

May be converted to the corresponding aluminium lake in which case only the *General Specifications for Aluminium Lakes of Colouring Matters* apply.

Chemical names

Disodium 8-acetamido-1-hydroxy-2-phenylazo-3,6-naphthalene-disulfonate

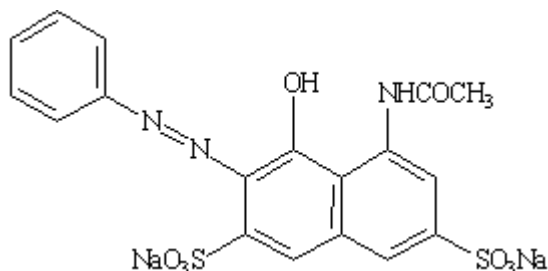
C.A.S. number

3734-67-6

Chemical formula

$C_{18}H_{13}N_3Na_2O_8S_2$

Structural formula



Formula weight

509.43

Assay

Not less than 80% total colouring matter

### DESCRIPTION

Red powder or granules

### FUNCTIONAL USES

Colour

### CHARACTERISTICS

#### IDENTIFICATION

Solubility (Vol. 4)

Soluble in water; sparingly soluble in ethanol

Identification of colouring matters (Vol. 4)

Passes test

#### PURITY

<u>Loss on drying at 135°</u> (Vol. 4)	Not more than 20% together with chloride and sulfate calculated as sodium salts
<u>Water insoluble matter</u> (Vol. 4)	Not more than 0.2%
<u>Lead</u> (Vol. 4)	Not more than 2 mg/kg Determine using an atomic absorption technique appropriate to the specified level. The selection of sample size and method of sample preparation may be based on the principles of the method described in Volume 4, "Instrumental Methods."
<u>Subsidiary colouring matters</u> (Vol. 4)	Not more than 2% Developing solvent: No. 4 Height of ascent of solvent front: approximately 17 cm
<u>Organic compounds other than colouring matters</u> (Vol. 4)	Not more than 0.3% of sum of 5-acetamido-4-hydroxy-2,7-naphthalene-2,7-disulfonic acid and 5-Amino-4-hydroxy-2,7-naphthalene-2,7-disulfonic acid  Use <i>liquid chromatography</i> under the following conditions: HPLC elution gradient: 1 to 100% at 2.5% per min (linear)
<u>Un sulfonated primary aromatic amines</u> (Vol. 4)	Not more than 0.01% calculated as aniline
<u>Ether extractable matter</u> (Vol. 4)	Not more than 0.2%
<b>METHOD OF ASSAY</b>	Proceed as directed under <i>Total Content by Titration with Titanous Chloride</i> (see Volume 4), using the following:  Weight of sample: 0.6-0.7 g Buffer: 15 g sodium hydrogen tartrate Weight: (D) of colouring matters equivalent to 1.00 ml of 0.1 N TiCl <sub>3</sub> : 12,74 mg