

SPECIFICATIONS

ARTICLE

Designation : **Tartrazine**

Code bobet : **10695**

Selling Unit : **Unit**

Non-contractual pictures

**CHARACTERISTICS**

Tartrazine

Packaging: 5 kg bucket

CHEMICAL NATURE:

- Chemical Name: Trisodium 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl) azo]-1H- pyrazole-3-carboxylate
- Chemical Formula: $C_{16}H_9N_4Na_3O_9S_2Na_3$
- Class: monoazoic
- Molar Mass: 534.37 g/mol

NOMENCLATURE :

- COLOR INDEX: Food Yellow 4 (food coloring)
- Constitution number: 19140
- EINECS No.: 217-699-5
- CASE N°: 1934-21-0
- Colorant admitted for the manufacture of all cosmetic products (Annex IV of Regulation (EC) No. 1223/2009). INCI: C.I. 19140
- Food coloring, compliant with the specifications for food additives established by EU Regulation No. 231/2012 of 03/9/2012. Regulated product Mandatory labeling
- Free from GMOs

MAIN FEATURES:

- Appearance: powder or granules, light orange (grain size: 0.7 – 2 mm)
- Color in solution: golden yellow/orange solution, clear at 10 g/l
- Maximum absorption (in water): approximately 426 nm
- Absorbency: 530 g.cm / 100 ml
- pH: 6.0-8.0 in 1% aqueous solution
- Solubilities: Water: approximately 140 g/l
Ethanol: slightly soluble
Vegetable oils: insoluble
- Fastness to light: very good (in water)
- Fastness to fruit acids: excellent

- Fastness to benzoic acid: excellent
- Fastness to sulfur dioxide: excellent
- Alkali fastness: good (more reddish tint)
- Thermal resistance :
excellent up to 105°C
very good up to 205°C
- Melting temperature: 350°C
- Expiration period: 8 years, in hermetically sealed packaging, protected from light, humidity, frost and heat.

PURITY:

- Colorant content: 87.00% minimum, all coloring materials combined (expressed in sodium salt)
- Volatile matter content at 135°C
& chlorides and sulfates (expressed as sodium salts): 13.00% maximum
- Materials insoluble in water: 0.10% maximum
- Materials extractable with ether: 0.20% maximum
- Accessory coloring materials: 1.00% maximum
- Non-sulfonated primary aromatic amines: 0.01% maximum
- Organic compounds other than coloring matter: 0.50% maximum
hydrazino-4-benzenesulfonic acid
1-amino-4-benzenesulfonic acid
oxo-5-(sulfo-4-phenyl)-1-pyrazoline-2-carboxylic-3 acid
diazamino-4,4'-di(benzenesulfonic) acid
tetrahydroxysuccinic acid
- Content in:
Arsenic: 1.00 mg/kg max. Heavy metals: 40.00 mg/kg max.
Lead: 2.00 mg/kg max. Barium: 50.00 mg/kg max.
Mercury: 1.00 mg/kg max. Chromium: 25.00 mg/kg max.
Cadmium: 1.00 mg/kg max. Antimony: 50.00 mg/kg max.

MAIN AREAS OF APPLICATION:

- Coloring of foodstuffs: IMPORTANT Certain food colorings/pigments are subject to a quantitative limitation in foodstuffs.
- Coloring of cosmetic and pharmaceutical products
- Paper coloring
- Inks
- Detergency...