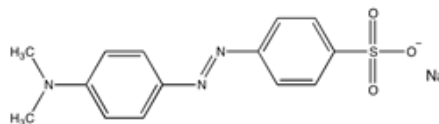


Methyl orange, C.I. 13025, indicator, for analysis, ExpertQ®, ACS**Identification**

C₁₄H₁₄N₃NaO₃S
M = 327,34 g/mol
CAS [547-58-0]
EC number: 208-925-3
Taric code: 2927 00 00

**Synonyms**

Helianthine, 4-Dimethylaminoazobenzene-4'-sulfonic acid sodium salt, Gold orange

Applications

indicator, analytical chemistry, laboratory reagent (alkali salts), manufacture of dyes (in the textile industry).

Specifications

appearance of solution.....	passes test	Absorption maximum λ_1 (pH 3,1)	501 - 504 nm
pH range (pink to orange-yellow)	3,2 - 4,4	Absorptivity (A1%/1 cm; λ_1 ; pH 3,1 on dried sample)	1050 - 1150
visual transition interval.....	passes test	Absorptivity (A1%/1 cm; λ_2 ; pH 4,4 on dried sample)	750 - 850
Absorption maximum λ_2 (pH 4,4)	467 - 471 nm	loss on drying (110 °C).....	max. 5 %

Physical data

- Appearance: powder, red
- Bulk density: ~ 200 - 400 kg/m³
- Solub. in water: (20 °C): ~ 5 g/l
- pH(5 g/l H₂O, 20 °C) ~ 6,5

Safety - GHS

Signal Word: Danger

Hazard Statements:

H301: Toxic if swallowed.

**Precautionary Statements:**

- P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P321: Specific treatment (see on this label).
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 6.1 T2 III • UN 2811 • TOXIC SOLID, ORGANIC, N.O.S. (Methyl orange, C.I. 13025)
- IMDG: 6.1 III • UN 2811 • TOXIC SOLID, ORGANIC, N.O.S. (Methyl orange, C.I. 13025)
- IATA/ICAO: 6.1 III • UN 2811 • TOXIC SOLID, ORGANIC, N.O.S. (Methyl orange, C.I. 13025)
- PAX: 655
- CAO: 619
- 5°C - 30°C