

## Product Information

### TECHNICAL DATA SHEET / Specification Sheet

#### **Acid fuchsin**

Synonym	: Fuchsin acid
Molecular Formula	: $C_{20}H_{17}N_3Na_2O_9S_3$
Molecular Weight	: 585.54
CAS No.	: 3244-88-0
Colour Index No.	: 42685
Shelf Life	: 5 years

#### **Technical Specification**

Appearance	: Olive to dark olive green crystals or powder with metallic sheen
Solubility	: 20 ppm in acidified water yields clear red solution
Visual pH transition	: pH 12 (red ) to pH 14 (colourless)
Absorption maximum 1	: 540 - 550nm (20 ppm in acidified water)
Absorption maximum 2	: 283 - 293nm (20 ppm in acidified water)
Absorption maximum 3	: 205 - 215nm (20 ppm in acidified water)
Molar absorptivity 1	: $\geq 50000$ (20 ppm in acidified water at 540 - 544nm)
Molar absorptivity 2	: $\geq 12000$ (20 ppm in acidified water at 283 - 293nm)
Molar absorptivity 3	: $\geq 40000$ (20 ppm in acidified water at 205 - 215nm)
Loss on drying (at 110°C, 2 hrs.)	: $\leq 10.0\%$
Dye content	: ~60%