

Pigment Yellow 14

1. Product Information

Colour Index No.: C.I. PY14

Chemical Name: Diarylide Yellow AAOT

Chemical Class: Disazo Pigment (Diarylide Yellow)

CAS No.: [5468-75-7]

EINECS No.: 226-770-4

Molecular Formula: C₃₄H₃₀ Cl₂N₆ O₄

Typical Structure: 3,3'-Dichlorobenzidine based disazo pigment

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Reddish-yellow powder
Hue	Reddish yellow
Density (g/cm³)	Approx. 1.4 - 1.6
Oil Absorption (g/100g)	Approx. 45 - 60
pH Value (10% slurry)	6.5 - 8.0
Lightfastness (1-8)	5-6 (Moderate to Good)
Heat Resistance (°C)	180 - 200

Property	Specification / Description
Water Resistance (1-5)	5 (Excellent)
Oil Resistance (1-5)	4 (Good)
Acid Resistance (1-5)	4 (Good)
Alkali Resistance (1-5)	3 (Moderate)

(Note: 1=Poor, 5=Excellent; Actual performance depends on application media and processing conditions)

3. Application Characteristics

Primary Applications:

Printing Inks: Widely used in **offset printing inks**, **flexographic inks**, and **gravure inks**, especially for packaging applications

Plastics: Suitable for **PVC**, **rubber**, and some **polyolefins** with moderate processing temperatures

Coatings: Used in **industrial coatings** and **architectural coatings** for indoor applications

Office Products: Coloring of **wax crayons**, **pencils**, and other stationery items

Key Advantages:

Clean reddish-yellow shade

High tinting strength

Good transparency

Cost-effective

Excellent printing properties

