ROBERT KOCH Industries Inc.

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Imperial Blue 2656

Water Soluble Dye

Color Intensity Graph

Note: Approximate color for aqueous applications in clear solutions*.

low	medium	heavy

Physical & Chemical Properties

Chemical nature: water soluble anthraquinone dye Form: powder Pure Dye Content: >80% by weight Chemical Formula: $C_{20}H_{19}N_2NaO_5S$ Molecular weight: 422.43 Ionic nature: anionic

Bulk density: variable, typically 0.55 - 0.75 g/cm³ Solubility: 21.35 g/l @20°C)

slight solubility in glycols and alcohols Shade: Pastel blue - deep blue depending on concentration Wavelength of maximum absorption (λ_{max}): 590 nm (water) Light fastness: good (ISO Rating: 6) Recommended pH range is 2.0-12.0,

above average stability in alkaline solutions Melting point: 349.8°C (1013 kPa)

Common Applications

Home, Industrial & Institutional Cleaning Products (HI&I) Chemical Compounding Textiles (wool, nylon, leather)

Typical Use Rates

This dye can be added at varying concentrations to produce shades ranging in intensity from light to strong. The following rates represent typical concentrations in various applications.

Tinting Liquid Products

0.1 % owf

0.5 %w/w

2.0 %w/w

Light	10 mg/l	(1-lb dye per 12,000 gal product)
Medium	30 mg/l	(1-lb dye per 4000 gal product)
Strong	70 mg/l	(1-lb dye per 1700 gal product)

Textiles

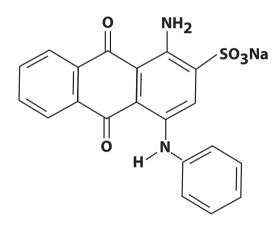
Light Medium Strong (1-lb per 1,000 lbs of product) (1-lb per 200 lbs of product) (1-lb per 50 lbs of product)

Identification

Color Index Generic Name:	Acid Blue 62
Color Index Constitution Number:	62045
Koch Color Item Code:	D2565P
CAS Number	4368-56-3
EC (EINECS) Number	224-460-9
PubChem CID	23678881
RTECS:	CB1092000
Synonyms	Telon Blue RRL

TSCA Name (USA): 2-Anthracenesulfonic acid, 1-amino-4-(cyclohexylamino)-9,10-dihydro--9,10-dioxo-, sodium salt (1:1)

 ${\tt EINECS Name: Sodium 1-amino-4-(cyclohexylamino)-9, 10-dihydro-9, 10-dioxoanthracene-2-sulphonate}$



Standard Packaging

1-lb jar (12/cs) 5-lb jar (4/cs) 25-lb pail 100-lb drum Custom packaging available.

Transportation

Shipping: Not regulated by US DOT/IATA . Contains no dangerous goods.

Storage & Handling

Storage: Store in a closed container in a dry environment. **Shelf Life:** 5 years.

* Disclaimer: For use in dyeing industrial products where improved color stability in alkaline (pH>7) environments is required. This dye exhibits better stability in alkaline solutions compared to most dyes. The recommended pH range is 2.0-12.0; however, the stability of this dye cannot be guaranteed in all solutions. Color shown is a CMYK approximation only. Actual color may vary depending upon concentration and the nature of the product to which this dye is applied. It is essential that thorough testing be completed on a sample basis before proceeding to use this dye on a production level. To our best knowledge, the information and recommendations contained herein are accurate and reliable. However, this information and our recommendations are furnished without warranty, representation, inducement, or license of any kind, including, but not limited to, the implied warranties of merchantability and fitness for a particular use or purpose. Customers are encouraged to conduct their own tests and to read the available product literature carefully before using this product.



Version 1