

# Lovibond® Colour Measurement

Tintometer® Group



## Certified Reference Standards

### Oils, Fuels and Chemicals

#### COLOUR SCALES

- AOCS-Tintometer
- ASTM Color
- Gardner
- Lovibond® RYBN
- PT-Co/Hazen/APHA
- Saybolt

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## Certified Colour Reference Standards

- Ideal for routine calibration of colour measuring instruments & verification of test data
- Ensure good inter-laboratory and inter-instrument correlation
- Applications in statistical quality control (SQC) and statistical process control (SPC)
- High stability standards with a guaranteed 12-month shelf-life
- Full traceability to internationally recognised standards
  - ASTM, Gardner & Saybolt Colour standards certified to ISO 17025
  - AOCS-Tintometer, Lovibond® RYBN & Pt-Co Colour certified under ISO 9001 quality system
- Each bottle supplied with full certification including MSDS

Covers the Key Colour Scales applied to Oils, Fuels & Chemicals

The range of Lovibond® colour reference standards includes AOCS-Tintometer, ASTM, Gardner, Lovibond® RYBN, Pt-Co/Hazen/APHA and Saybolt Colour, the key colour scales applied to oils, fuels & chemicals. Each standard is supplied in a 500 mL bottle with a 12-month guarantee of colour stability. The values indicated are typical nominal values; individual values may vary but these are always specified on the certificate of calibration supplied with each standard.

### Excellence in Colour Measurement

Process industries throughout the world use Lovibond® colorimeters for colour control of products such as edible and industrial oils, fuels, chemicals, paint vehicles and coatings. The Lovibond® brand is recognised by major international standardising bodies, including the AOCS, ISO and ASTM. It is this unparalleled knowledge that ensures good correlation with Lovibond® colorimeters.

| Colour Scale  | Nominal Certified Value<br>Certified Value       | Order Code | Accreditation<br>Standard |
|---|--|------------|---------------------------|
| AOCS-Tintometer Colour<br>(AOCS Cc 13j-97, Cc 13b-45) | 0.4R 2.0Y (5 <sup>1</sup> / <sub>4</sub> "       | 134240     | ISO 9001                  |
|   | 1.6R 9.0Y (5 <sup>1</sup> / <sub>4</sub> "       | 134250     | ISO 9001                  |
|   | 1.9R 12.0Y (5 <sup>1</sup> / <sub>4</sub> "      | 134260     | ISO 9001                  |
|   | 2.5R 20.0Y (5 <sup>1</sup> / <sub>4</sub> "      | 134270     | ISO 9001                  |
|   | 3.0R 28.0Y (5 <sup>1</sup> / <sub>4</sub> "      | 134280     | ISO 9001                  |
| ASTM Color<br>(ASTM D6045, D1500)                     | 0.4 (<0.5)                                       | 134290     | ISO 17025                 |
|   | 1  | 134000     | ISO 17025                 |
|   | 3  | 134010     | ISO 17025                 |
|   | 5  | 134020     | ISO 17025                 |
|   | 7  | 134030     | ISO 17025                 |
| Gardner Colour<br>(ASTM D1544, D6166)                 | 2  | 134200     | ISO 17025                 |
|   | 5  | 134210     | ISO 17025                 |
|   | 8  | 134220     | ISO 17025                 |
| Lovibond RYBN Colour<br>(AOCS Cc 13j-97)              | 0.8R 2.0Y 0.1N (5 <sup>1</sup> / <sub>4</sub> "  | 134080     | ISO 9001                  |
|   | 1.4R 4.0Y 0.5N (5 <sup>1</sup> / <sub>4</sub> "  | 134090     | ISO 9001                  |
|   | 2.0R 7.0Y 0.5N (5 <sup>1</sup> / <sub>4</sub> "  | 134100     | ISO 9001                  |
|   | 2.1R 11.0Y 0.5N (5 <sup>1</sup> / <sub>4</sub> " | 134110     | ISO 9001                  |
|   | 2.5R 14.0Y 0.7N (5 <sup>1</sup> / <sub>4</sub> " | 134120     | ISO 9001                  |
|   | 3.1R 22.0Y 0.8N (5 <sup>1</sup> / <sub>4</sub> " | 134130     | ISO 9001                  |
|   | 3.4R 30.0Y 0.9N (5 <sup>1</sup> / <sub>4</sub> " | 134230     | ISO 9001                  |
| Platinum-Cobalt Colour<br>(ASTM D1209)                | 5mg Pt/l   | 134140     | ISO 9001                  |
|   | 10mg Pt/l  | 134150     | ISO 9001                  |
|   | 15mg Pt/l  | 134160     | ISO 9001                  |
|   | 30mg Pt/l  | 134170     | ISO 9001                  |
|   | 50mg Pt/l  | 134180     | ISO 9001                  |
|   | 100mg Pt/l                                       | 134190     | ISO 9001                  |
| Saybolt Colour<br>(ASTM D6045, D156)                  | -10  | 134040     | ISO 17025                 |
|   | 0  | 134050     | ISO 17025                 |
|   | +12  | 134060     | ISO 17025                 |
|   | +25  | 134070     | ISO 17025                 |



### Quality Assurance

Lovibond® colour reference standards are produced for Tintometer by Paragon Scientific, the UK based manufacturer of certified reference materials with a reputation for analytical excellence. Each standard is issued with a Certificate of Calibration, which confirms that the product has been manufactured and tested under the control of Tintometer's ISO 9001 Quality Management System and conforms in all respects with the stated standard or test method. In addition, Tintometer has been awarded UKAS (United Kingdom Accreditation Service) accreditation as a colour calibration laboratory for spectral response and CIE measurements. As a result, we are able to supply reference standards for Saybolt, ASTM and Gardner Colour that are directly traceable to internationally recognised standards and certified to ISO/IEC 17025.



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