**Nomenclature**

Symbols

|  |  |
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| △E  | Color difference |
| L\*  | Lightness in CIE-Lab color space |
| a\*  | Red (+ values) or green (- values) color in CIE-Lab color space |
| b\*  | Yellow (+ values) or blue (- values) color in CIE-Lab color space |
| R  | Red color in RGB color space |
| G  | Green color RGB color space |
| B  | Blue color RGB color space |
| R2  | Coefficient of determination in regression analysis |
| Csrgb  | One from Rsrgb, Gsrgb, and Bsrgb |
| Clinear   | One from Rlinear, Glinear, and Blinear |
| Rsrgb  | Red color in standard RGB color space |
| Gsrgb  | Green color in standard RGB color space |
| Bsrgb  | Blue color in standard RGB color space |
| Rlinear  | Linear R value |
| Glinear  | Linear G value |
| Blinear  | Linear B value |
| X  | Stimulus value X in CIE-XYZ color space |
| Y  | Stimulus value Y in CIE-XYZ color space |
| Z  | Stimulus value Z in CIE-XYZ color space |
| Xn  | Stimulus value X of the reference white point in CIE-XYZ color space |
| Yn  | Stimulus value Y of the reference white point in CIE-XYZ color space |
| Zn  | Stimulus value Z of the reference white point in CIE-XYZ color space |

**Abbreviations**

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| --- | --- |
| HPLC  | High-Performance Liquid Chromatography |
| CIE | International Commission on Illumination |
| CIE-Lab  | CIE color space with dimensions L for lightness and a and b for the color-opponent dimensions |
| CIE-XYZ  | CIE color space with dimensions of X, Y and Z for the tristimulus values |
| SDK  | Software Development Kit |
| JDK  | Java Development Kit |
| API  | Application Programming Interface |
| RGB  | Red, Green and Blue color space |
| sRGB  | standard RGB color space |
| JA ZEN-NOH  | Japan National Federation of Agricultural Cooperative Associations |