





Refractive Index Liquid **Series B**  
 Refractive Index **1.65000** at 589.3 nm and 25 °C

Cauchy Coefficients  
 A 1.612069E+00 B 1.0623E+04 C 8.8517702E+08

Cauchy Equation at 25°C  $A + B / \lambda^2 + C / \lambda^4$  ( $\lambda$  = Wavelength in nm)

| Wavelength (nm) | Refractive Index | Transmittance |      |      |       |
|-----------------|------------------|---------------|------|------|-------|
|                 |                  | 0.1 mm        | 1 mm | 1 cm | 10 cm |
| 225.0           | -                | -             | -    | -    | -     |
| 240.0           | -                | -             | -    | -    | -     |
| 250.0           | -                | -             | -    | -    | -     |
| 270.0           | -                | -             | -    | -    | -     |
| 290.0           | -                | -             | -    | -    | -     |
| 308.0           | -                | -             | -    | -    | -     |
| 355.0           | -                | -             | -    | -    | -     |
| 365.0           | 1.742            | 98            | 86   | 22   | 0     |
| 406.0           | 1.7091           | 99            | 94   | 56   | 0     |
| 473.0           | 1.6772           | 100           | 99   | 87   | 25    |
| 532.0           | 1.6607           | 100           | 100  | 97   | 73    |
| 589.3           | 1.6500           | 100           | 100  | 98   | 82    |
| 632.8           | 1.6441           | 100           | 100  | 98   | 82    |
| 656.3           | 1.6415           | 100           | 100  | 98   | 83    |
| 790.0           | 1.6314           | 100           | 100  | 98   | 83    |
| 828.0           | 1.6294           | 100           | 100  | 99   | 87    |
| 981.0           | 1.624            | 100           | 100  | 99   | 89    |
| 1310.0          | 1.619            | 100           | 99   | 95   | 58    |
| 1550.0          | 1.617            | 100           | 99   | 92   | 46    |
| 2500.0          | -                | -             | -    | -    | -     |
| 3700.0          | -                | -             | -    | -    | -     |

( $n_F - n_C$ ) 0.0314

Abbe  $v_D$  20.7

Temp. Coefficient -0.000466  $dn_D/dt$  (15 - 35 °C)

Shelf Life: 5 Years from Date of Manufacture for Unopened Bottles, Half the Remaining Time after Opening