





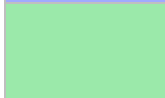



OrcoTerge™ APH Colorants for the HI&I Industries

OrcoTerge™ APH colorants are specialty dyes specifically selected for use in detergent applications for the Household, Industrial, & Institutional(HI&I) industries. These dyes have a wide pH-stability range which is necessary in many specialty soap and detergent formulations.

| | OrcoTerge™ APH | pH (1% Dilution in Deionized H ₂ O) | pH Stability | Solubility 68°F (g/L) |
|---|-----------------------|---|-------------------------------|--|
|  | APH Lemon Yellow | 5.00 | 2 - 13 | ~60 |
|  | APH Orange | 6.35 | 2 - 13 | ~50 |
|  | APH Red | 6.00 | 2 - 13 | ~50 |
|  | APH Purple B | 6.00 | 2 - 13 | ~40 |
|  | APH Purple R | 6.80 | 2 - 13 | ~40 |
|  | APH Blue | 6.20 | 2 - 13 | ~40 |
|  | APH Green | 5.75 | 2 - 13 | ~50 |
|  | APH Candy Apple Green | 5.45 | 2 - 13 | ~50 |

Actual dye samples must be evaluated in a laboratory on medium to be dyed in production for accurate shade and physical property results. Shades shown on print material and computer monitors are for general reference only as they are inherently inaccurate due to calibration variations and technical limitations of monitors and printers.