HIGH PURITY WATER **Product Number 365**

Packaged in 4L Glass Bottles

Burdick & Jackson High Purity Water has undergone rigorous purification in order to ensure its suitability for gradient elution HPLC, and other demanding chromatographic applications. Negligible UV absorbance and extremely low organic carbon and particulates make it the best choice for your critical requirements.

Specifications:

Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
190	0.010
200	0.010
250	0.005
300	0.005
400	0.005

Refractive index: 1.3330 ± 0.0010 at 20°C
Residue: Less than one mg/L
Microbial contamination: None detected by Epifluorescence microscopy at time of packaging.
Purity by liquid chromatography: No UV absorbing peak greater than 0.005 absorbance unit at 200 nm in a gradient from 100% water to 100% acetonitrile on a 15 x 0.46 cm HLD C_8 column with 5 uM packing after an initial loading of 20 mL water.
Fluorescence: No impurity greater than 0.3 ppb as quinine base at emission of 450 nm after excitation at 350 nm.

Physical Properties:

Molecular weight: 18.02
Boiling point: 100°C(212°F)
Vapor pressure: 31.68 hPa at 25°C(77°F)
Freezing point: 0°C(32°F)
Refractive index: 1.3330 at 20
Density: 0.9982 g/mL (8.329 lb/gal) at 20°C
0.9971 g/mL (8.319 lb/gal) at 25°C
Dielectric constant: 80.1 at 20°C
Dipole moment: 1.87 D at 20°C
Solvent group: 8
Polarity index (P'): 10.2
Viscosity: 1.00 cP at 20°C
Surface tension: 72.8 dyn/cm at 20°C

Regulatory and Safety Data:

DOT hazard class: Not regulated
Flash point: None
Threshold limit value: Not listed

Suggested Applications:

For gradient elution high performance liquid chromatography (HPLC), and spectrophotometry.