Eata Battery

Potassium-Ion Electrolyte

Catlog Number: BME-0012

Description

Specialized electrolyte for potassium-ion battery (KIB) research, providing a stable electrochemical window for hard carbon anodes.

Basic Information

Main Salt: KPF6

Salt Concentration: 0.8 M

Solvent Ratio (Vol%): EC:DEC=1:1

Additive 1: FEC (2%)

Additive 2: N/A

Appearance: Colorless Liquid

Water Content (KF): ≤ 30 ppm

Free Acid (as HF): ≤ 60 ppm

Density (25°C): 1.35-1.45 g/cm³

Conductivity (25°C): 6.0-8.0 mS/cm

Viscosity (25°C): 5.5-8.0 mPa·s

Chloride (Cl-): ≤ 2 ppm

Sulfate (SO4 2-): ≤ 10 ppm

Iron (Fe) Content: ≤ 1 ppm

Sodium (Na) Content: ≤ 5 ppm

Potassium (K) Content: Main Salt

Operating Voltage: 0.0 - 4.2 V

Operating Temp: -15 to 50°C

Flash Point: 30-40°C

Solid Content: 14-17 wt%

Refractive Index: 1.39-1.49

Turbidity: ≤ 8 NTU

Color (APHA): ≤ 40

Packaging: SS Cylinder

Storage

< 5°C, Ar

Eata Battery delivers the world's battery makers a single, reliable source for every high-performance raw material—cathode to collector, catalyst to membrane—so you can design, scale and ship next-generation batteries faster.

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