

Redox Flow (Vanadium)

Catlog Number: BME-0046

• Description

Standard Vanadium Redox Flow Battery (VRFB) electrolyte, balanced for high energy density and stability against vanadium precipitation.

• Basic Information

Main Salt: VOSO₄

Salt Concentration: 1.6 M

Solvent Ratio (Vol%): H₂SO₄ (3M)

Additive 1: N/A

Additive 2: N/A

Appearance: Blue/Green Liquid

Water Content (KF): N/A (Aqueous)

Free Acid (as HF): N/A

Density (25°C): 1.30-1.45 g/cm³

Conductivity (25°C): 200-300 mS/cm

Viscosity (25°C): 2.0-5.0 mPa·s

Chloride (Cl⁻): ≤ 50 ppm

Sulfate (SO₄²⁻): Main Anion

Iron (Fe) Content: ≤ 10 ppm

Sodium (Na) Content: ≤ 50 ppm

Potassium (K) Content: ≤ 50 ppm

Operating Voltage: 1.2 - 1.6 V

Operating Temp: 5 to 45°C

Flash Point: Non-flam

Solid Content: ~35 wt%

Refractive Index: 1.38-1.44

Turbidity: ≤ 10 NTU

Color (APHA): N/A

Packaging: Poly Drum

• Storage

RT

 For Research or Industrial Raw Materials, Not For Personal Medical Use!