

## Vinylene carbonate (VC)

<b>CHEMICAL NAME</b>	1,3-dioxol-2-one
<b>INCI NAME</b>	None
<b>CAS NUMBER</b>	872-36-6
<b>FUNCTION</b>	Membrane-forming additive for electrolyte in lithium-ion batteries (Li-Ion). Intermediate in organic synthesis.
<b>TECHNICAL REQUIREMENTS</b>	Purity (GC)..... min. 99.99% Moisture..... ≤30 ppm Colour (APHA)..... ≤20 BHT..... 70-110 ppm Total chlorine..... ≤15 ppm
<b>GENERAL DATA</b>	Appearance..... colourless transparent liquid Molar mass..... 86.04 g/mol Density (20 °C)..... 1.36 g/cm <sup>3</sup> Melting point..... 15 °C Boiling point..... 168 °C Flash point..... 80 °C Index of refraction (25°C)..... 1.419 Solubility in water (20,2 °C)..... 515 g/l Kinematic viscosity (20 °C)..... 1,306 mm <sup>2</sup> /s
<b>APPLICATION</b>	Production of electrolytes for batteries and accumulators of Li-Ion type; organic synthesis.