



## Technical Data Sheet

### ACS Material Highly Purified Single-Walled Carbon Nanotubes (SWCNTs, Length = 5-30 $\mu\text{m}$ )

#### Table of Contents

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[1 – Preparation Method](#)

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[2 – Characterizations](#)

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[3 – Application Fields](#)

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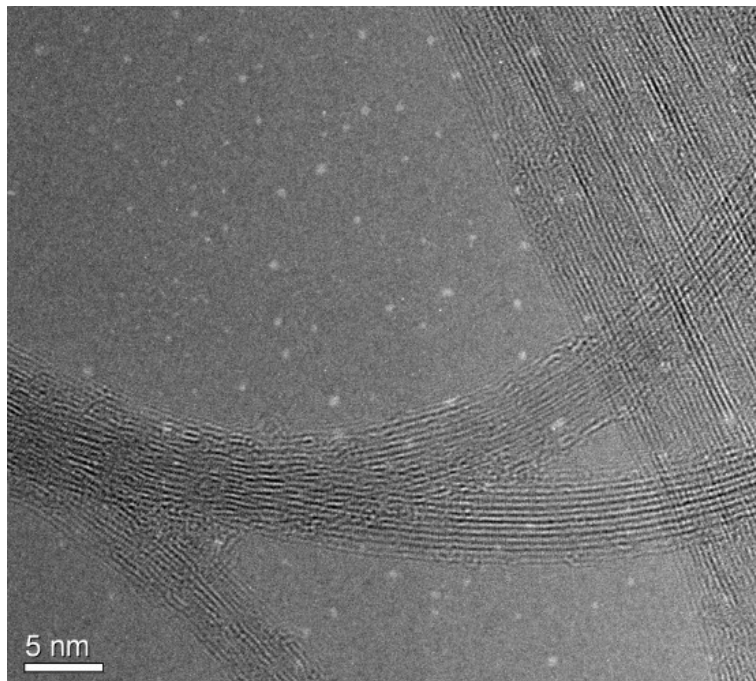
Revision: 090717

## 1. Preparation Method

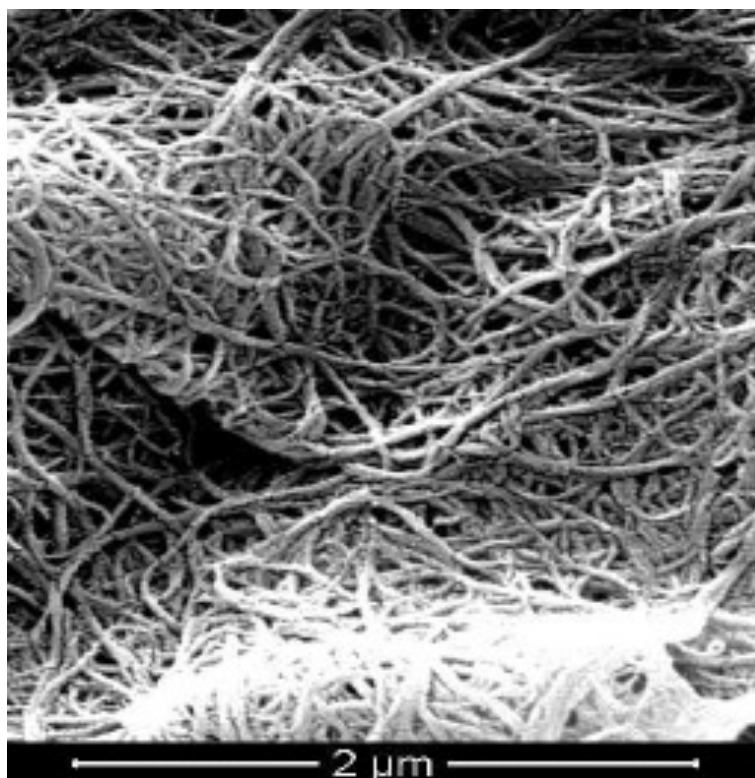
Chemical Vapor Deposition (CVD) Method

## 2. Characterizations

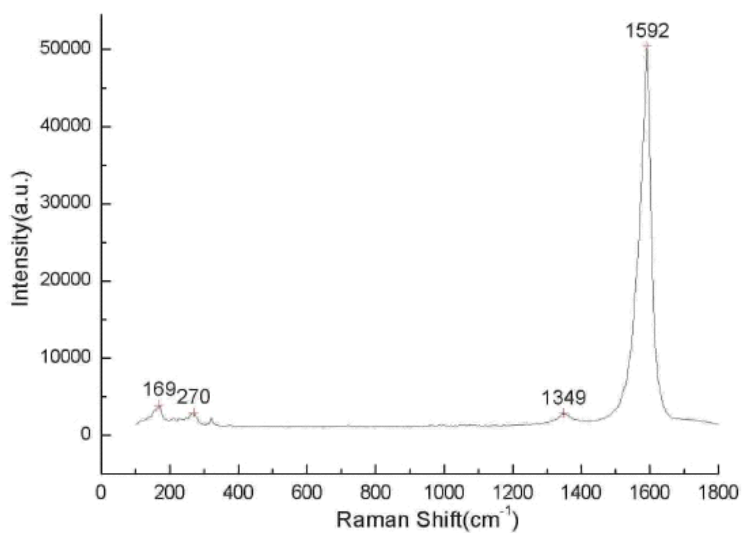
<b>Purity:</b>	>95%
<b>Color:</b>	Black
<b>Outer Diameter:</b>	<2 nm
<b>Length:</b>	5-30 $\mu\text{m}$
<b>SSA:</b>	>380 $\text{m}^2/\text{g}$
<b>Tap density:</b>	0.14 $\text{g}/\text{cm}^3$
<b>Apparent density:</b>	$\sim 2.1\text{g}/\text{cm}^3$
<b>EC:</b>	>100 S/cm



TEM Image of ACS Material Highly Purified SWCNTs (Length = 5-30  $\mu\text{m}$ )



SEM Image of ACS Material Highly Purified SWCNTs (Length = 5-30 μm)



Raman Spectrum of ACS Material Highly Purified SWCNTs (Length = 5-30 μm)

### 3. Application Fields

Catalysts, additives in polymers, nanoelectrodes, drug delivery, sensors, electromagnetic-wave absorption and shielding, electron field emitters for cathode ray lighting elements, flat panel display, gas-discharge tubes in telecom networks, energy conversion, lithium-battery anodes, hydrogen storage, supercapacitors, nanotube composites (by filling or coating), nanoprobes for STM, AFM, and EFM tips, nanolithography, reinforcements in composites, *etc.*

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