

Product Information

Low-purity carboxylated SWCNTs

Cat. No.: X26-04-ZQ559

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: COOH-SWCNTs (Low Purity); Carboxyl-functionalized crude SWCNTs; Acid-oxidized low-purity SWCNTs

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	These SWCNTs are functionalized with carboxyl groups but contain a higher percentage of residual catalyst and amorphous carbon compared to high-purity grades. They offer a cost-effective alternative for research where the absolute purity of the carbon phase is less critical than the presence of surface functional groups. These nanotubes are suitable for initial screening of composite properties or industrial-scale trials.
Source	Custom synthesis
Partical Size	Particle size: 1-2 nm; Length: : 5-30 μ m
Functional Group	Carboxyl
Form	Solid or powder
Purity	$\geq 95\%$
Impurities	No visible impurities to the naked eye.
Identity	HPLC/MS/NMR
Stability	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	This product can be used for preliminary composite reinforcement research, the study of bulk carbon material behavior, and as an additive for industrial conductive coatings.
Storage	Store at -20°C .