

Technical Data

Categories No: TNC6099

Name: Fullerene

Appearance: Dark brown or black powder(crystal)

Density: About 1.70g/cm³(at 25°C)

Melting point: >280°C

Boiling point: sublimation under 800K

Flash point: >94°C

Static dielectric constant: 4.0-4.5

Resistivity: 10¹⁴ ohms.m⁻¹

Solubility: sparingly soluble in 1,2,4-trichlorobenzene, carbon disulfide, toluene, benzene, chloroform, carbon tetrachloride, hexane, tetrahydrofuran, acetonitrile and other organic solvents, insoluble in water.

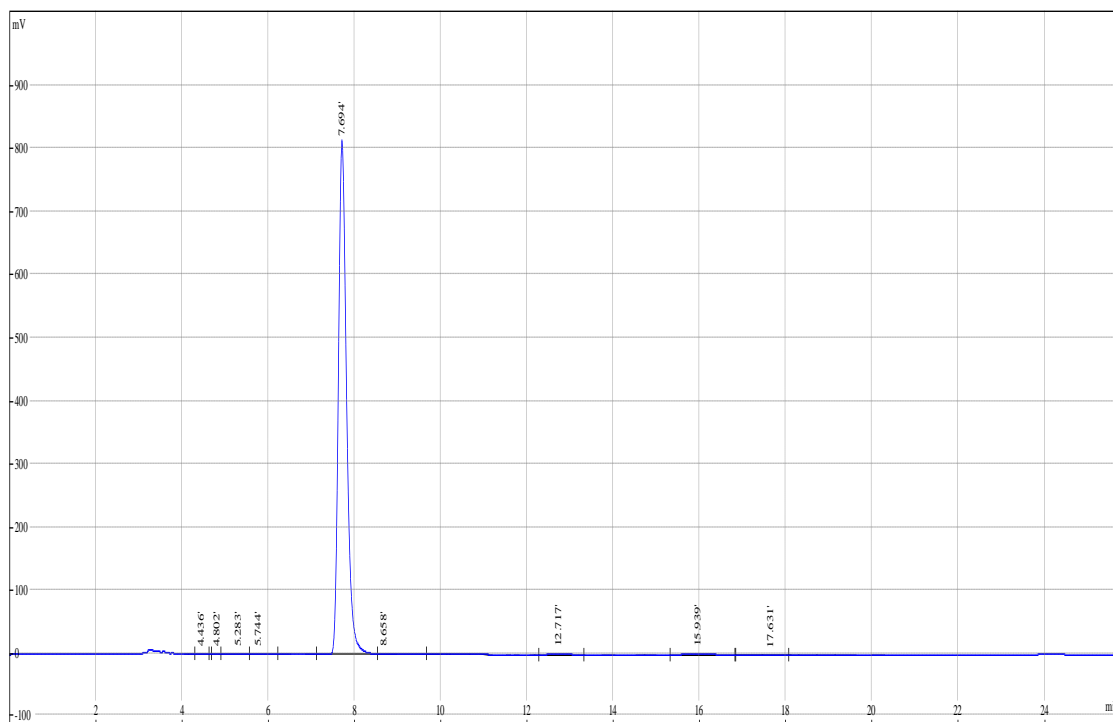
Storage: Save with lucifugal and sealed surroundings at room temperature.

分析条件：色谱柱—Buckprep (4.6*250 mm)

样品—250 ppm C60

流动相—100% 甲苯，流速—1.0 mL/min

检测波长—310 nm，温度—24°C



C60产品色谱图

C60纯度计算结果

序号	保留时间	名称	浓度	峰面积
1	4.436		0.05604	6040
2	4.802		0.01234	1331
3	5.283		0.1822	19639
4	5.744		0.1869	20146
5	7.694	C60	99.1	10681162
6	8.658		0.06632	7148
7	12.717	C70	0.1756	18927
8	15.939		0.1775	19130
9	17.631		0.04416	4760
总计			100	10778283

注：以 HPLC 面积比值计算，纯度为 99.1%