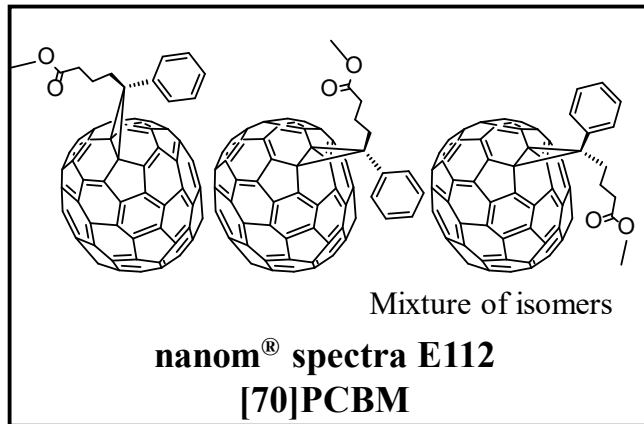


テクニカル・レポート

高純度 [70]PCBM "nanom[®] spectra E112"

フロンティアカーボン(株)では有機薄膜太陽電池向けに超高純度 [70]PCBM(Phenyl C71-butylric acid methyl ester) nanom[®] spectra E112を発売いたしました。
nanom[®] spectra E112 は、当社従来グレードnanom[®] spectra E110に比較し、更に高純度になっています。nanom[®] spectra E112をぜひお試しください！

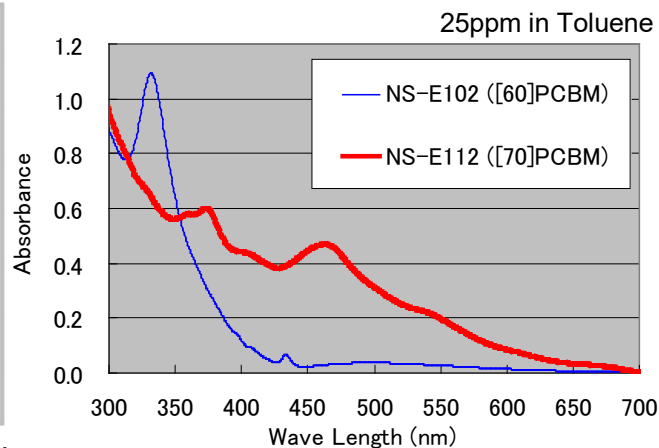


- **Grade Name** : nanom[®] spectra E112
- **Common Name** : [70]PCBM
Phenyl C71-butylric acid methyl ester
- **CAS Number** : 609771-63-3
1051371-21-1
- **Molecular Formula** : C₈₂H₁₄O₂
- **Molecular Weight** : 1031.1
- **Purity (HPLC analysis)** : >99.5A%
(total content of isomers mixture)

Purity

Gradesn Name		nanom [®] spectra	
		E112	E110
Purity HPLC (area%)	[70]PCBM	99.7	99.1
	X1	0.2	0.2
	X2	< 0.1	0.5
	C ₇₀	ND	ND
	[60]PCBM	< 0.1	0.1
	[HF]PCBM	ND	< 0.1

UV-Visible Spectra



*The data is typical value by high resolution analysis.

Solubility

Solvent	NS-E112 ([70]PCBM)	NS-E102 ([60]PCBM)
Toluene	2wt%	1wt%

1st Reduction Potential

	NS-E112 ([70]PCBM)	NS-E102 ([60]PCBM)
E ^{1/2}	-1.19V	-1.18V

Potential in volts vs Fc/Fc⁺ measured with CV in o-Dichlorobenzene containing TBAPF₆(0.1M) as a supporting electrolyte. Pt, Pt wire, and Ag/Ag⁺ electrodes, respectively.

*The all data is typical value.

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