



PC61BM

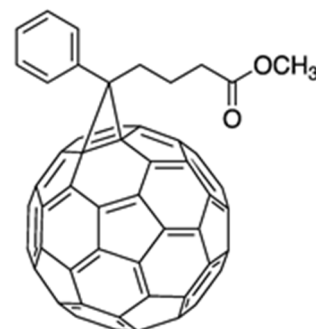
TECHNICAL DATA SHEET [TDS]

SECTION 1

Identifiers and Synonyms

Product Name	PC61BM
Reference	SOL5061
Chemical Name	[6,6]-Phenyl C61 butyric acid methyl ester
CAS Number	160848-22-6
Synonyms	PCBM, PC61BM, C60PCBM, PC60BM, [60]PCBM
Molecular Formula	$C_{72}H_{14}O_2$
Molecular Weight	911 g/mol
Appearance	Dark brown, solid, crystalline powder

Structure



SECTION 2

Optoelectronic Properties

Property	Value
HOMO	-6.1 eV
LUMO	-3.7 eV
Absorption λ_{max}	Not available (N/A)
Emission λ_{max}	Not available (N/A)

SECTION 3

Thermal and Physical Properties

Property	Value
Melting Point	N/A
Color	Dark brown
Texture	Crystalline powder
Solubility	Toluene, chlorobenzene, 1,2-dichlorobenzene

SECTION 4

Storage & Handling

- Store in a cool, dry place under inert atmosphere.
- Avoid prolonged exposure to air and light.
- Handle under nitrogen or argon if high purity is required for device fabrication.

SECTION 5

Applications

- Organic Photovoltaics (OPV).
- Bulk Heterojunction Solar Cells.
- Electron-accepting material in polymer solar cells.
- Organic electronics.

SECTION 6

Safety & Transport

- **Hazard Classification:** Refer to SDS.
- **Transport:** Non- regulated for transport.
- **Handling:** Use appropriate PPE and fume hood for lab use.