

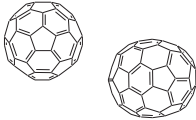
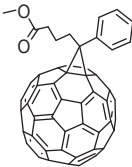
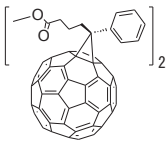
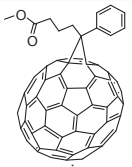

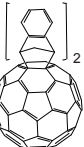
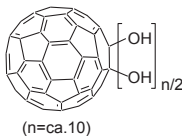
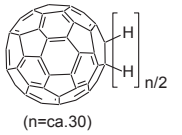


| Grades | | Structure | Purity(HPLC Area%, typical values) etc | Minimum order quantity (g) |
|--|-------|---|--|----------------------------|
| nanom purple Fullerene C ₆₀ | STL |  | 96 | 10 |
| | ST | | 99 | 10 |
| | STH | | 99.5 | 2 |
| | SU | | 99.5/Sublimed | 2 |
| | SUH | | 99.9/Sublimed | 1 |
| | SC | | 99.9/Sublimed, Single Crystal | 1 |
| nanom orange Fullerene C ₇₀ | ST |  | 97 | 1 |
| | SU | | 98/Sublimed | 1 |
| nanom mix Mixed Fullerene | ST |  | Mixture of C ₆₀ , C ₇₀ and other higher order fullerenes | 50 |
| nanom spectra [60]PCBM (phenyl C ₆₁ -butyric acid methyl ester) | E100 |  | 99 | 1 |
| | E100H | | 99.5 | 1 |
| | E102 | | 99.9 | 0.5 |
| nanom spectra E400 bis[60]PCBM (bis-phenyl C ₆₁ -butyric acid methyl ester) | |  | 98/Mixture of isomers | 1 |
| nanom spectra [70]PCBM (phenyl C ₇₁ -butyric acid methyl ester) | E110 |  main component | 99/Mixture of isomers | 0.5 |
| | E112 | | 99.5/Mixture of isomers | 0.5 |
| nanom spectra Q100 Indene-C ₆₀ -monoadduct | |  | 99 | 0.5 |
| nanom spectra Q400 Indene-C ₆₀ -bisadduct | |  | 99/Mixture of isomers | 1 |
| nanom spectra D100 Hydroxylated Fullerene | |  (n=ca.10) | C ₆₀ (OH) _n n=10:main component | 1 |
| nanom spectra A100 Hydrogenated Fullerene | |  (n=ca.30) | C ₆₀ H _n n=30:main component | 1 |

| Grades | Structure | Purity(HPLC Area%, typical values) etc | Minimum order quantity (g) |
|---|-----------|---|----------------------------|
| nanom spectra J204 Tetraamino Fullerene | | mixed fullerene based fullerene derivatives | 1 |
| nanom spectra H200 Pentaaryl [60]Fullerene | | 99 | 1 |
| nanom spectra M100 Decaaryl [60]Fullerene | | 99/mixture of isomers | 1 |

Solubility in Organic Solvent(Reference Values)

| Grades | Solubility (wt %) | | | | | | | |
|----------|-------------------|------|---------|-----|-----|---------|------|------|
| | PGMEA | PGME | Anisole | CHN | THF | Toluene | ODCB | MeOH |
| NP-ST | - | - | - | - | - | 0.3 | 1.8 | - |
| NOR-ST | - | - | - | - | - | 0.2 | 1.9 | - |
| NS-E100 | 0.0 | 0.0 | 1.1 | 0.8 | 0.1 | 0.6 | 1.7 | 0.0 |
| NS-E110 | - | - | - | - | - | 3.0 | >25 | - |
| NS-E400 | 1.9 | 0.4 | >25 | >25 | >25 | >25 | >25 | 0.0 |
| NS-Q100 | - | - | - | - | - | 0.4 | - | - |
| NS-Q400 | - | - | - | - | - | >10 | - | - |
| NS-D100 | 0.0 | 2.2 | 0.0 | 1.0 | 1.8 | 0.0 | 0.0 | 0.1 |
| NS-J 204 | >25 | >25 | >25 | >25 | >25 | >25 | >25 | 0.0 |
| NS-H200 | >25 | >25 | 1.3 | >25 | >25 | 0.0 | 0.0 | >25 |
| NS-M100 | >25 | >25 | 0.7 | >25 | >25 | 0.0 | 0.0 | >25 |

※ PGMEA : Propylene Glycol 1-Monomethyl Ether 2-Acetate
 PGME : 1-Methoxy-2-propanol, CHN: Cyclohexanone
 THF : Tetrahydrofurane
 ODCB : o-Dichlorobenzene
 MeOH : Methanol

