

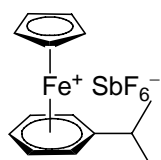
**Photoinitiator for UV Radiation Curing Systems**
**PHOTOINITIATOR**
**1. General**

R-gen<sup>®</sup> 262 belongs to the class of cationic organometallic photoinitiators. It provides excellent light absorption and high resolution for epoxy curing. Thermal cure may be needed after photo activation of the catalyst depending on the kind of resin used. Although it is not as efficient cationic photoinitiators as the sulfonium salts, it does have the advantage of stability of the cured image. Besides the photobleaching property make deep penetration can be easily achieved. It can cure coatings and castings up to several millimeters in thickness. Its use in combination with hydroperoxide and/or photosensitizers such as ITX or anthracene, the thermal requirements tends to substantially reduced.

**2. Properties**

Chemical Name : ( $\eta^5$ -2,4-cyclopentadien-1-yl)[(1,2,3,4,5,6- $\eta$ )-(1-methylethyl)benzene]-iron(I)-hexafluoroantimonate

Structure :



CAS No. : 100011-37-8

EC No. : 407-840-0

**3. Physical Data**

Appearance : Yellow powder

Odor : Faint

Melting point : 83–85 °C

Boiling point : >250 °C

**4. Solubility**

(g in 100 ml solvent @20 °C)

Water : 0.4

Dichloromethane : 80

Toluene : 40

TMPTA : >10

TPDGA : >10

Bisphenol epoxy acrylate : >10

**5. Specification**

Appearance : Yellow powder

Assay (HPLC) : 98% min.

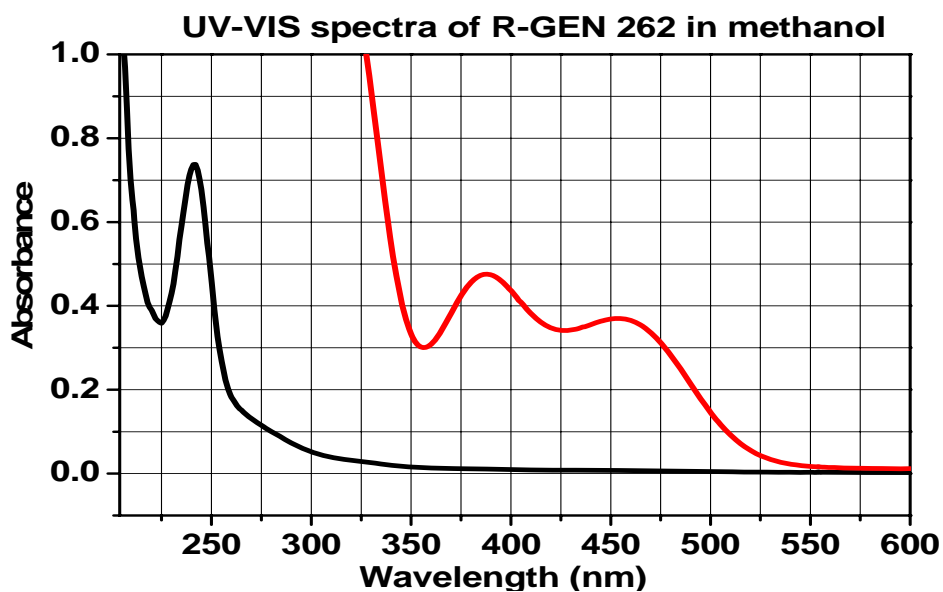
Melting point : 80 °C min

Volatiles : 0.5% max.

**6. Application**

R-gen® 262 is recommended for the applications such as etch resist PCB, solder masks as well as laser direct imaging. It is also suitable for water-soluble photopolymers.

**7. UV-VIS Spectra**



**8. IR Spectrum**

