

## PRODUCT IDENTITY

|                 |                             |                |                                                                     |
|-----------------|-----------------------------|----------------|---------------------------------------------------------------------|
| PRODUCT NAME    | Thulium sulfate octahydrate | PRODUCT NUMBER | T119086                                                             |
| Grades & Purity | ≥99.9% metals basis         | VERSION        | 3                                                                   |
| CAS NUMBER      | 13778-40-0                  | FORMULA        | Tm <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O |
| FORMULA WEIGHT  | 770.18g/mol                 |                |                                                                     |

## ACCEPTANCE CRITERIA

| PARAMETER                                  | SPECIFICATION / LIMIT  |
|--------------------------------------------|------------------------|
| Trace Rare Earth Analysis                  | 0-2000 (ppm)           |
| Water by Karl Fischer                      | 15-25 (%)              |
| Purity(Based On Trace Rare Earth Analysis) | 99.9-100 (%)           |
| ICP Assay                                  | Confirmed to structure |
| X-Ray Diffraction                          | Conforms to Structure  |