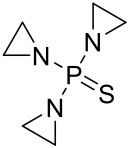




Certificate of Analysis

| MedKoo Cat#: | Product Name: | Lot# |
|--------------|---------------|----------|
| 100860 | Thiotepa | ALA50619 |

| Chemical name | |
|---|---|
| Tri(aziridin-1-yl)phosphine sulfide | |
| Synonyms | |
| Code name: WR 45312; WR45312; WR-45312. Abbreviation: TSPA. Other name: thiophosphamide; thiophosphoramidate; triethylene thiophosphoramidate. US brand names: Girostan; STEPA; TESPAs; Thiofozil; Thioplex; Tifosyl. Foreign brand names: Ledertepa; Onco Tiotepa; Oncotiotepa; Tespamin; Tespamine; Thiotef; Tio-TEF; | |
| Chemical structure | CAS# and Theoretical analysis |
|  | MedKoo Cat#: 100860 Name: Thiotepa CAS#: 52-24-4 Lot#ALA50619 Chemical Formula: C ₆ H ₁₂ N ₃ PS Exact Mass: 189.04895 Molecular Weight: 189.22 |

| Analysis item | Specifications / Results |
|--------------------|--|
| Appearance | White solid powder |
| Structure | ¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature. |
| Purity (HPLC) | >98.0% |
| Solubility | Soluble in DMSO, not soluble in water |
| Conclusion | This product conforms with MedKoo's quality standards |
| Shipping condition | Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs. |
| Storage condition | Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition |
| Self life | At least 5 years if properly stored. |

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE