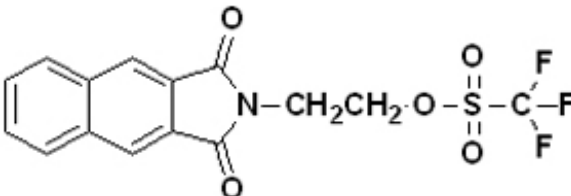


Certificate of Analysis

(C of A)

| | | | | | | | | |
|-----------------------------------|--|--|-------------|---|--|-------------|--|-------------|
| Name: | | NIETf 2-(2,3-Naphthalimino)ethyl trifluoromethanesulfonate | | | | | | |
| Catalog Number: | | 6369 | Lot: | | 51560 | | | |
| CAS Number: | | 128651-50-3 | Formula: | | C ₁₅ H ₁₀ F ₃ NO ₅ S | | | |
| Molecular Weight: | | 373.30 (g/mol) | Appearance: | | Off-White Solid | | | |
| | | | | | | | | |
| | | Observed | | Standard | | | | |
| Absorption (5:1 Methanol / Water) | | | | | | | | |
| Wavelength (λ _{max}): | | 260 nm | | 260 ± 3 nm | | | | |
| Extinction: | | 66,300 cm ⁻¹ M ⁻¹ | | 63,000 ± 5,000 cm ⁻¹ M ⁻¹ | | | | |
| TLC Purity: | | > 99% | | ≥ 90% | | | | |
| TLC System: | | 90:10 Chloroform / Hexane | | | | | | |
| Storage: | | Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L) | | | | | | |
| Production Lot: | | 16117 | Release: | | 25-Jan-2019 | Expiration: | | 25-Jan-2029 |
| Structure: | |  | | | | | | |

This data reflects the accuracy of the analysis of the subject lot
 For research use only. Not for human use. No animal source.
 This material is chemically synthesized and manufactured in the USA

Approved by: Dianna M Wineinger
 Analytical Services Manager

Date: 25-Jan-2019

Signature: Dianna M Wineinger