



CERTIFICATE OF ANALYSIS

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1. Identification

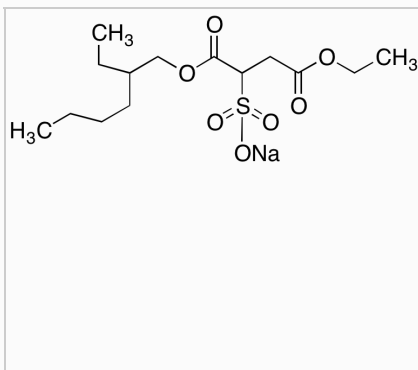
Catalogue Number: D282125

CAS Number: NA

Product: 4-Des-((2-ethylhexyl)oxy) 4-Ethoxy Docusate Sodium

Synonym: Docusate Sodium Impurity D; Sodium Monoethyl Sulfosuccinate Ethyl Ester;

Structure:



Molecular Formula:

$C_{14}H_{25}NaO_7S$

Molecular weight:

360.4

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 1-JTS-122-3

Purity: 95%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

| Tests: | Specifications: | Results: |
|--------------------|--------------------------|-----------------------------------|
| Appearance | White to Off-White Solid | White to Off-White Solid |
| NMR | Conforms to Structure | Conforms |
| MS | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 40.09, %H: 7.54 |
| Sodium Content | Report Result | 6.45% by Ion Chromatography |
| HPLC Purity | Report Result | 99.92% (ELSD) |
| Water Content | Report Result | ~8.3% based on Elemental Analysis |

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

| Reviewed By | Reviewed By | C of A Approved By | Test Date | Retest Date |
|-------------|---------------|--------------------|-----------|-------------|
| Nicole Yip | Toni Rantanen | Chanell Chu | 9/23/2022 | 9/21/2026 |