



CERTIFICATE OF ANALYSIS

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1. Identification

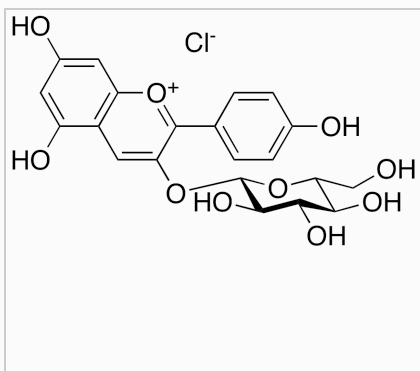
Catalogue Number: P218515

CAS Number: 18466-51-8

Synonym: 3-(?-D-Glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxyphenyl)-1-benzopyrylium Chloride; Callistephin (6CI,7CI,8CI); 3,4',5,7-Tetrahydroxyflavylium Chloride 3-Glucoside; 3,4',5,7-Tetrahydroxyflavylium Chloride 3-?-D-Glucopyranoside; 3-(?-D-Glucopyranosyloxy)-4',5,7-trihydroxyflavylium Chloride; Callistephin Chloride; Pelargonidin 3-O-Glucoside; Pelargonidin 3-O-?-D-Glucopyranoside; Pelargonidin 3-Glucoside; Pelargonidin 3-Monoglucoside; Pelargonidin 3-?-D-Glucopyranoside; Pelargonidin 3-?-Glucoside

Product: Pelargonidin 3-Glucoside (>90%)

Structure:



Molecular Formula:

$C_{21}H_{21}ClO_{10}$

Molecular weight:

468.84

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Very Slightly)

Lot Number: 2-RMT-80-1

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 | Dark Red to Very Dark Red Solid | Dark Red to Very Dark Red Solid |
| NMR | Conforms to Structure | Conforms |
| MS | Conforms to Structure | Conforms |
| Chloride Content | Report Result | 6.2% |

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 | 8/18/2022 | 8/16/2026 |
|  |  |  | | |