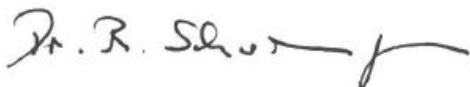


## Certificate of Analysis

**Product Name:** Malvidin chloride  
analytical standard  
**Product Number:** 92607  
**Batch Number:** BCCC0869  
**Brand:** Sigma-Aldrich  
**CAS Number:** 643-84-5  
**Formula:** C<sub>17</sub>H<sub>15</sub>ClO<sub>7</sub>  
**Formula Weight:** 366.75  
**Storage Temperature:** -20 C  
**Expiration Date:** AUG 2022  
**Quality Release Date:** 14 OCT 2019

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	BROWN TO VERY DARK BROWN AND BROWN-RED AND RED-BROWN AND BLACK	RED-BLACK
APPEARANCE (FORM)	POWDER OR CRYSTALS	POWDER
PURITY (HPLC AREA %)	≥ 95.0 %	98.3 %
WATER	≤ 8.0 %	5.1 %
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS



Dr. Reinhold Schwenninger  
Quality Assurance  
Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.