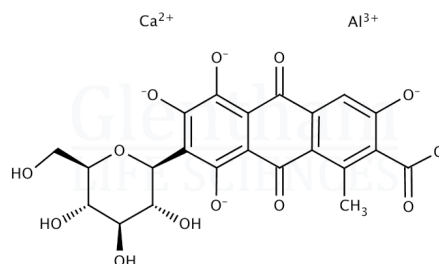


## Certificate of Analysis

Product Name Carmine (C.I. 75470)  
Glentham Code GT9400  
CAS Number 1390-65-4  
EINECS 215-724-4  
Colour Index 75470  
MDL Number MFCD00167028  
PubChem SID 310269389  
Batch Number 171ZCI

Molecular Weight -  
Molecular Formula -  
Storage Temp. +20°C



| Property                                             | Specification                     | Batch 171ZCI |
|------------------------------------------------------|-----------------------------------|--------------|
| Physical Description                                 | Red to dark purple powder         | Red powder   |
| Solubility (0.1% in 2N NH <sub>4</sub> OH)           | Clear, red or red-purple solution | Conforms     |
| Wavelength of Maximum Absorption (λ <sub>max</sub> ) | 525 - 535 nm                      | 531nm        |
| Absorption Ratio (λ <sub>max</sub> ± 15nm)           | 0.9 - 1.1                         | 0.95         |
| Loss on Drying                                       | ≤ 20.0%                           | 12.4%        |
| Dye Content                                          | ≥ 42.0% (Carminic acid)           | 51.1%        |

Specification Version v1.0  
Manufacture Date 2019-01-01  
Re-Test Date 2031-03-10

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025