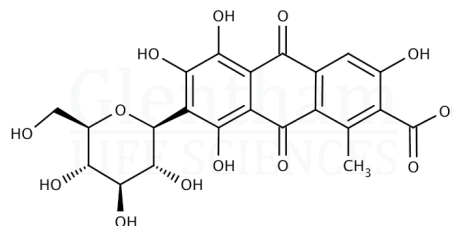


## Certificate of Analysis

Product Name Carminic acid  
Glentham Code GT8708  
CAS Number 1260-17-9  
EINECS 215-023-3  
MDL Number MFCD00167028  
PubChem SID 310269390  
Batch Number 545TNY

Molecular Weight 492.39  
Molecular Formula  $C_{22}H_{20}O_{13}$   
Storage Temp. +20°C



Property	Specification	Batch 545TNY
Physical Description	Red, dark red to orange or purple-brown crystalline powder	Dark red crystalline powder
Solubility (1% in 1M acetic acid)	Clear to very faintly turbid, red to dark red solution	Clear, dark red solution
Wavelength of Maximum Absorption ( $\lambda_{max}$ )	492.0 - 498.0 nm (methanol)	496.0nm
Absorptivity (1%/1cm)	$\geq 120$ ( $\lambda_{max}$ , methanol)	160
Dye Content	$\geq 90.0\%$	95.3%

Specification Version v1.0  
Manufacture Date 2020-12-10  
Re-Test Date 2035-01-31

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.

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