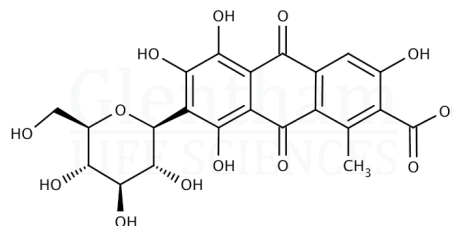


Certificate of Analysis

Product Name Carminic acid
Glentham Code GT8708
CAS Number 1260-17-9
EINECS 215-023-3
MDL Number MFCD00167028
PubChem SID 310269390
Batch Number 477SCQ

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



Property	Specification	Batch 477SCQ
Physical Description	Red, dark red to orange or purple-brown crystalline powder	Dark purple crystalline powder
Solubility (1% in 1M acetic acid)	Clear to very faintly turbid, red to dark red solution	Conforms
Wavelength of Maximum Absorption (λ_{max})	492.0 - 498.0 nm (methanol)	496 nm
Absorptivity (1%/1cm)	≥ 120 (λ_{max} , methanol)	164.71
Dye Content	$\geq 90.0\%$	95.78%

Specification Version v1.0
Manufacture Date 2018-02-11
Re-Test Date 2032-01-23

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 or contact us using the details above for the current version of this document.

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