



UV Absorbers Specialist

MFCI1852

CERTIFICATE OF ANALYSIS

Mfsorb® 202

Product Name	Benzophenone-3 (Oxybenzone)	CAS No.	131-57-7
Batch No.	BP3-202306109	Batch Weight	1200kg
MFG. Date	2023.06.19	Retest Date	2027.06.18

Item	Specification	Result
Appearance	Pale greenish yellow crystalline powder	Conform
Odor	Similar in character and intensity to standard, very slight odor	Conform
Identification	A. Infrared Absorption <197K>	Conform
	B. The retention time corresponds to the standard.	Conform
Assay (HPLC)	97.0%~103.0%	100.8%
Congeealing Temperature	≥ 62.0°C	62.2°C
Loss on Drying	≤ 0.20%	0.11%
Impurities (HPLC)	Total impurities: ≤ 1.0%	0.023%
	Benzophenone-1: ≤ 0.2%	0.005%
	Single largest unspecified impurities: ≤ 0.10%	0.0047%
Residual Solvents	Ethanol ≤ 5000ppm	Conform
Specific Extinction (1%, 1cm)	E ₂₆₈ ≥ 630	641
	E ₃₂₅ ≥ 410	417
Melting Point	62.0°C~65.0°C	62.1°C~62.6°C
Gardner Color	≤ 4.0	3.2

Conclusion: Meets the requirements of current USP monograph for Oxybenzone.

Prepared by:  Date: 2023.06.27 Approved by:  Date: 2023.06.27

