Technical Information

MES Buffer
Plant Culture Tested

Product Code: PCT1701

Product Information

Product Code	: PCT1701
Product Name	: MES buffer, Plant Culture Tested
Synonym	: [2-(N-Morpholino) ethanesulphonic acid]
Molecular Formula	: $C_6H_{13}NO_4S$
Molecular Weight	: 195.24
CAS No.	: 4432-31-9

Technical Specification

Appearance	: White powder.
Solubility	: Soluble in water.
Reaction	: Reaction of 1% w/v aqueous solution at 25°C.
pH	: 2.50 - 4.00
Cultural response	: Cultures conditions - Incubation period (5wks), Relative humidity (60±2%), Temperature (25±2ºC), Photoperiod Day: Night in hours (16:8)
Shoot culture	: No structural deformity observed, actively growing shoots, no toxicity to shoots
Callus culture	: No necrotic tissues, actively growing callus, no toxicity to callus
Chloride (Cl)	: <= 0.01%
Moisture	: <= 1%
Heavy metals (as Pb)	: <= 0.001%
Sulphate (SO_4)	: <= 0.05%
Useful pH range	: 5.5 - 6.7
pKa (20°C)	: 6.15
Minimum assay (Titration)	: 99.00 %

Risk And Safety Information

WGK	: 3
RTECS	: --
Storage Temperature(°C)	: Store below 30°C

Transport Information

Marine Pollutant	: No
ADR/RID	: Not Dangerous Goods
IMDG	: Not Dangerous Goods
IATA	: Not Dangerous Goods

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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