Specification

MES 1-hydrate for buffer solutions A1074

Physical Description:	Solid
Product Code:	A1074
Product Name:	MES 1-hydrate for buffer solutions
Specifications:	Assay (titr.): min. 99 % pH (1 %; H_2O; 25°C): 2.5 - 4.0 Loss on drying: max. 9.5 % Heavy metals (as Pb): max. 0.001 % Chloride: max. 0.01 % Sulfate: max. 0.05 % A (1 cm/0.1 M in H_2O) 280 nm: max. 0.02 260 nm: max. 0.05
WGK:	1
Storage:	RT
Molecular Formula:	$C_6H_{13}NO_4S \cdot H_2O$
M:	213.25 g/mol
CAS:	145224-94-8
EINECS:	224-632-3
CS:	29349990

Comment

MES does not interfere with the Folin protein assay. MES partialy decomposes, when autoclaved in the presence of glucose. MES is component of e. g. the DNase buffer (10 mM MES, pH 6 in 0.1 M NaCl; 5 mM $MgCl_2$; 2 mM $CaCl_2$).

Bibliography

(1)Good, N.E. *et al.* (1966) *Biochemistry* **5**, 467-477Hydrogen ion buffers for biological research. (2)Good, N.E. & Izawa, S. (1972) *Methods Enzymol.* **24**, 53-68Hydrogen ion buffers. (3)Ferguson, W.J. *et al*. (1980) *Anal. Biochem.* **104**, 300-310Hydrogen ion buffers for biological research.

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