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-CERTIFICATE OF ANALYSIS-

Product: 1-(2-Hydroxyethyl)piperazine 97%

Code Number: OR18310

CAS Number: 103-76-4

Formula: C₆ H₁₄ N₂ O

Batch Number: AS446111

Appearance: Clear, colourless, extremely viscous liquid

Purity by GC: 99.9%

Titration: 97.9%w/w as product (NAT
with HClO₄)

Verified by: David Parton

Signed: --Digital document, no signature required--

Date: 13/11/2013