

Apollo Scientific Ltd
Whitefield Road, Bredbury,
Stockport, SK6 2QR, UK.
Tel:44(0)161 406 0505 Fax:44(0)161 406
0506



-CERTIFICATE OF ANALYSIS-

Product: 2,3-Butanediol

Code Number: OR923268

CAS Number: 513-85-9

Formula: C₄H₁₀O₂

Batch Number: AS505811

Appearance: Colourless to light yellow liquid

Water content: 0.3% (KF)

Purity >97.0% (NMR)

Optical Rotation: -2.0 deg (C=0.51 g/100ml
CHCL₃)

Identity: ¹H-NMR conforms to
structure

Verified by: David Parton

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