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Certificate of analysis

Product name	2,3-Butanediol
CAS No.	513-85-9
Molecular formula	(CH ₃) ₂ (CHOH) ₂
Molecular weight	90.12
Lot number	20171029
Quantity	2000kgs
Manufacturing date	October 29,2017
Inspecting date	October 29,2017
Packing	25kgs/drum 200kgs/drum

Tested items	Standard	Tested result
Appearance	Colorless to light yellow transparent liquid	Qualified
2,3-Butanediol Purity % ≥	99	99.7288
Meso content of 2,3-Butanediol % ≥	88	95.6
Natural degree test % ≥	98 ±3	99
Heavy metal content % ≤	0.001	0.0001
(As) Arsenic content % ≤	0.0001	0.00001
Boiling point	179-182℃	179-182℃
(d ₂₅ ²⁵) Relative density	0.001-0.005(25/25℃)	0.0025(25/25℃)
(n _D ²⁰) Refractive index	1.435-1.440	1.4366
Solubility	Soluble in water,ethanol and glycerol	Qualified
Conclusion	Conforms to FCC-4,also conforms to USP-28,BP-2003	

Inspector: Dr.Lian