

Specification

333191 3,4-Diaminopyridine

CAS	Formula	Molweight
54-96-6	C ₅ H ₇ N ₃	109,13

Parameter	Specification
Aspect	white or almost white crystalline powder
Identity (IR)	passes test
Identity (HPLC)	compare Rt
Assay (NT) calc. on dried Substance	99.0 - 101.0 %
Assay (HPLC, against St., dried Subst.)	98.0 - 102.0 %
Loss on drying (105°C)	max. 0.5 %
Appearance of solution (5% in Methanol)	passes test
Sulphated ash	max. 0.1 %
4-Aminopyridine (HPLC)	max. 0.1 %
4-Hydroxypyridine (HPLC)	max. 0.1 %
4-Amino-3-nitropyridine (GC-MS)	max. 48 ppm
4-Amino-3,5-dinitropyridine (GC-MS)	max. 12 ppm
3,4,5-Triaminopyridine (HPLC)	max. 0.1 %
3,4-Diaminopyridine-N-oxide (HPLC)	max. 0.1 %
3,4-Diamino-5-nitropyridine (GC-MS)	max. 12 ppm
Single unknown Impurities (HPLC)	max. 0.1%
Total impurities (HPLC)	max. 0.5 %
Heavy Metals (as Pb)	max. 10 ppm
Arsenic (As)	max. 3 ppm
Melting range from	217 - 222 °C
Melting range to	217 - 222 °C
Total aerobic microbial count	max. 2000 CFU/g
Total combined yeasts/moulds count	max. 200 CFU/g
Escherichia coli	absence in 1g
Requirement	meets USP residual solvent chapter <467>

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Page / Pages : 1 / 1

LOBA Feinchemie GmbH
Quality Control

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