

# Specification

## Technical Data Sheet

<b>Product Name</b>	New Methylene Blue N (ZnCl double salt)
<b>Product No</b>	29731030
<b>CAS Number</b>	6586-05-6
<b>Storage Temperature</b>	Ambient
<b>Molecular Weight</b>	416.05
	<b>Specification</b>
<b>Appearance</b>	Dark brown to deep purple crystalline powder
<b>Loss on Drying</b>	≤5.0%
<b>Assay</b>	≥90%
<b>Elemental Analysis Nitrogen</b>	8.6 - 11.2%
<b>Solubility</b>	Soluble in water and alcohol forming a clear blue solution
<b>Spectrophotometric Assay: (5.0mgs/ ltrs.in water)</b>	632.0nm +/- 3nm = 0.529 591.0nm +/- 3nm = 0.433 287.0nm +/- 3nm = 0.336 245.0nm +/- 3nm = 0.206

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### Elemental Analysis Carbon

46.5 - 57.4%

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### Extinction co-efficient

E (632.0nm +/- 3nm) -  $\geq 44000$ . E (591.0nm +/- 3nm) -  $\geq 36000$ . E (287.0nm +/- 3nm) -  $\geq 28000$ . E(245.0nm +/- 3nm) -  $\geq 16000$ .

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