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TYPICAL ANALYSIS / SPECIFICATION

PRODUCT : GUAIPHENESIN
SHELF LIFE : FIVE YEARS SUBJECT TO CORRECT STORAGE

Test	Standards	Result
Appearance	White or almost white, crystalline powder	Conforms
Appearance of solution	Clear and colourless	Conforms
Melting range	79-83°C	80.0 – 81.0°C
Solubility	Sparingly soluble in water, soluble in alcohol and slightly soluble in ether	Conforms
Identification	Examine by IR absorption spectrophotometry – comply with the spectrum of Guaiphenesine CRS	Conforms
Acidity or alkalinity	NMT 0.1 ml 0.01 MNAOH NMT 0.1 ml 0.01 MHCL	0.04 ml 0.02 ml
Related substances	Guaiacol ≤0.1% Beta-isomer ≤1.0% Bisether ≤0.5% 1,3 BIS(2-methoxyphenoxy) propan-2-OL ≤0.5% any other individual impurity ≤0.5%	0.003% 0.07% 0.04% 0.11% Conforms
Sum of all impurities	Sum of all impurities ≤1.0%	0.18%
Chlorides & monochlorhydrines	≤250 PPM	<250 PPM
Sulphated ash	≤0.1%	0.03%
Loss on drying	≤0.5%	0.04%
Heavy metals	≤25 PPM	<25 PPM
Assay (C ₁₀ H ₁₄ O ₄)	98.0 – 102.0%	99.5%

Conclusion: Material conforms to BP2002