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TECHNICAL INFORMATION

Catalog Number: 155263

Litmus

Molecular Weight: Approximately 3300 ¹

CAS # : 1393-92-6

Synonyms: C.I. Natural Red 28; Lackmus; Tournesole; Chhadila; Lichen blue

Physical Description: Dark blue powder

Color Transition:

pH 4.5: Red
pH 5.3: Purple
pH 8.3: Blue

Solubility: Soluble in ethanol (3 mg/ml); partly soluble water (10 mg/ml-opaque dark blue solution) or alcohol

Description: An acid-base indicator developed from various orcinol-containing lichen including *Lecanora tartarea*, *Rocella fuciformis* and *Variolaria dealbata*. The principal coloring matter in Litmus is Azolitmus, a substituted 7-hydroxy-2-phenoxazone derivative.³

References:

- *Merck Index, 12th Ed.*, No. 5574.
- Lillie, R.D. (ed), *H.J. Conn's Biological Stains, 9th Edition*, The Williams and Wilkins Company, p. 374, 400, 403 (1977).
- Musso, H. and Kramer, H., *Chem. Ber.*, v. **92**, 751-753 (1959).