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Product Information Sheet

I4068 Indigo Carmine

Synonyms: 5,5'-Indigodisulfonic Acid Sodium Salt, Indigotine, Acid Blue 74, CI#: 73015

CAS: 860-22-0

Formula: C16H8N2Na2O8S2

Mol. Weight: 466.35

Properties

Form: Powder Appearance: Dark Violet

Solubility: Soluble in Water, Ethanol Application: Biological Stain, Seed Testing

Storage Temp:

Room Temperature

Typical Working Concentration:

Varies with application, should be determined by end user.

Application Notes

Used to stain seeds to detect dead tissues. Stain will penetrate dead cells, but will not stain living cells. This can aid in determining seed viability (Gosling 2003).

Indigo Carmine can also be used as a pH indicator: It is blue at pH 11.4 and yellow at 13.0.

References

Gadd, I. & A. Kjaer (1940) On the applicability of the selenite and indigo-carmine methods to the testing of frost-and *Fusarium*- damaged cereal seed-grain. *Proceedings of the International Seed Testing Association* Vol. 12 No. 2 pp. 140-149.

Gosling PG (2003) Viability testing. In: Smith RD, Dickie JB, Linington SL, Pritchard HW, Probert RJ (eds) Seed conservation turning science into practice. Royal Botanic Gardens, Kew, pp 445–481.

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