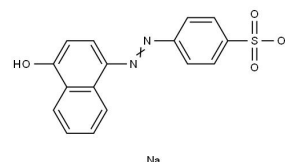


Technical Data Sheet

ORANGE I

Compound Information

Product Name:	ORANGE I
CAS No.:	523-44-4
Molecular Formula:	C ₁₆ H ₁₂ N ₂ O ₄ S.Na
Molecular Weight:	351.33
Storage:	Store at RT
Revision Date:	2026-04-15



Analytical Information

Tests	Specifications
Synonym	Acid orange 20, Orange I, Tropaeolin 000-1
Appearance	Orange to brown to dark red powder to crystal
Specification Reference	CI 14600
λ_{max}	474 - 478 nm (0.02 mol/L AcONH ₄ solution)
Absorbance (E1%1cm)	≥ 720 (0.02 mol/L AcONH ₄ solution, 474 - 478 nm)
1H NMR	Pass test
IR	Pass test

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.