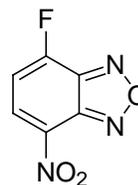


## PRODUCT AND SAFETY DATA SHEET

**PRODUCT NAME:** NBD Fluoride (4-fluoro-7-nitrobenzo-2-oxa-1,3-diazole)**CATALOG #** 90046**MOLECULAR INFORMATION:** C<sub>6</sub>H<sub>2</sub>FN<sub>3</sub>O<sub>3</sub>  
MWt: 183**PROPERTIES:**

**Color & Form** Yellow solid  
**Purity** ≥ 97% by TLC  
**Solubility** Soluble in DMF  
**Absorption/Emission** 465/535 nm (for reaction product with primary amines); 485/540 nm (for reaction product with secondary amines)

**Extinction Coefficient**

**STORAGE AND HANDLING:** Store at -20 °C and protect from light

**APPLICATION:** NBD fluoride is similar to NBD chloride (#90045) except that the former is much more reactive toward amines. Both reagents are nonfluorescent until they react with primary or secondary amines to produce a fluorescent product. NBD chloride and NBD fluoride have been extensively used as derivatizing reagents for chromatography analysis of amino acids and low molecular weight amines.

Ref.: 1) *Anal. Chim. Acta* **130**, 377(1981); 2) *Biochem. J.* **108**, 155(1968); 3) *Anal. Biochem.* **116**, 471(1981); 4) *Anal. Chim. Acta* **290**, 3(1994).

**TOXICITY:** Not established. Not listed by NTP, IARC or OSHA.

**FIRST AID:** Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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