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## Product Data Sheet

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Product Name: Fluo-3FF (potassium salt)

Cat. No.: GC43684

**Chemical Properties**

Cas. No. 348079-14-1

SMILES O=C([O-])CN(CC([O-])=O)C1=CC=C(C2=C(C=C3Cl)C(OC4=C2C=C(Cl)C([O-])=C4)=CC3=O)C=C1OCCOC5=C(N(CC([O-])=O)CC([O-])=O)C=CC(F)=C5F.[K+].[K+].[K+].[K+].[K+]

Formula C<sub>35</sub>H<sub>21</sub>Cl<sub>2</sub>F<sub>2</sub>N<sub>2</sub>O<sub>13</sub>•5K

M.Wt 981.9

Solubility Water: soluble

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Fluo-3FF is a fluorescent calcium indicator. It is a di-fluorinated analog of Fluo-3 that displays about a 100-fold lower affinity than Fluo-3 for calcium (K<sub>d</sub>s = 42 and 0.4 μM, respectively). Low affinity calcium indicators are particularly useful for studying compartments with high concentrations of calcium, such as endoplasmic reticulum, where high affinity dyes will be insensitive to luminal fluctuations. Fluo-3FF has excitation/emission maxima of approximately 506 and 526 nm, respectively.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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