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## Product Specification

Product Name:

1-Cyano-4-dimethylaminopyridinium tetrafluoroborate – organic cyanylating reagent

Product Number:

C2776

CAS Number:

59016-56-7

Formula:

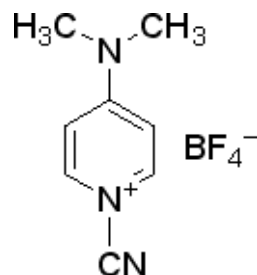
C<sub>8</sub>H<sub>10</sub>BF<sub>4</sub>N<sub>3</sub>

Formula Weight:

234.99 g/mol

Storage Temperature:

-20 °C



### TEST

### Specification

Appearance (Form)	Powder
Appearance (Colour)	White to Yellow
Solubility (Solvent)	Acetonitrile
Solubility (Conc)	49.00 - 51.00 mg/ml
Solubility (Turbidity)	Clear to Slightly Hazy
Solubility (Color)	Colorless to Yellow
Elemental Anal. (%C anhydrous)	40.39 - 41.39 %
Elemental Anal. (%N anhydrous)	17.48 - 18.28 %
NMR (Solvent)	CD <sub>3</sub> CN
Identity by NMR	Consistent
NMR (Residual Solvent 1)	Acetone
NMR (% Solvent 1)	≤ 2.00 %
NMR (Residual Solvent 2)	Toluene
NMR (% Solvent 2)	≤ 2.00 %
NMR (Total % Resid.Solvents)	≤ 2.00 %
Purity (TLC)	≥ 97.00 %
UV (Solvent)	HCl 0.1N
UV (Lambda max)	298 - 302 nm
UV (EmM at Lambda max)	28.00 - 32.00
Recommended Retest Period	-----
3 Years	

Specification: PRE.1.ZQ5.10000001030

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.