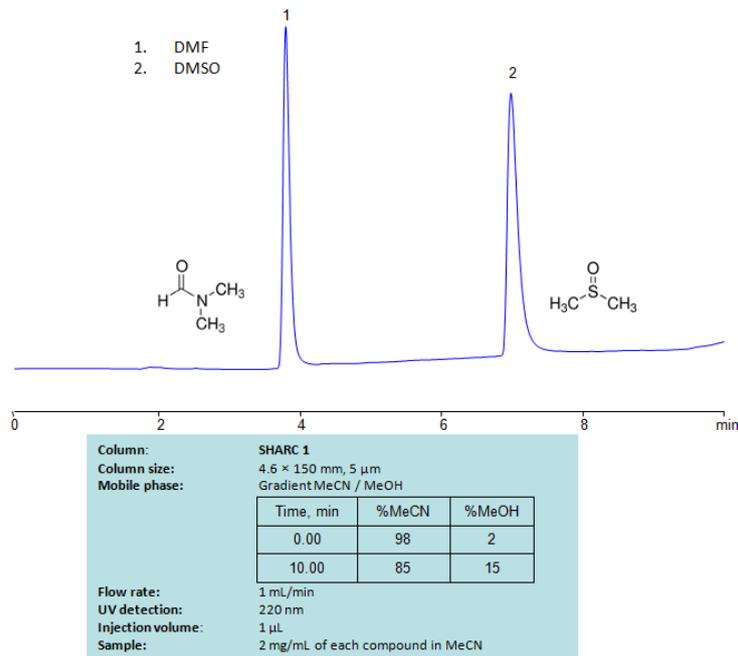


## HPLC Separation of Mixture of DMF and DMSO



High Performance Liquid Chromatography (HPLC) Method for Analysis of DMF (Dimethylformamide) , DMSO (Dimethyl sulfoxide) .

Dimethylformamide, DMF, is primarily used as an organic solvent and is miscible with water and most other organic liquids. Dimethyl sulfoxide (DMSO) is also a solvent. It can dissolve both polar and nonpolar compounds and is miscible with water and other organic liquids. Both compounds can be retained and separated using anhydrous (water-free) conditions using HPLC by SHARC1 column, which uses hydrogen-bonding as a separation mechanism. The method uses a gradient of acetonitrile (ACN) and methanol (MeOH) mobile phase without the need for a buffer. UV detection used at 220 nm.

### Method Parameters

<b>Column</b>	SHARC1, 4.6 x 150 mm, 5 μm, 100 Å, dual ended
<b>Mobile Phase</b>	Gradient MeCN – 98-85%, 10 min
<b>Buffer</b>	No
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV, 220 nm

Quelle: <https://sielc.com/hplc-separation-of-mixture-of-dmf-and-dms>