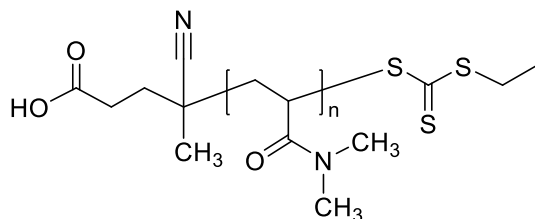


**Sample Name:** RAFT-terminated  
Poly(N,N-dimethylacrylamide)

**Sample #:** P41431-DMA-RAFT

**Structure:**



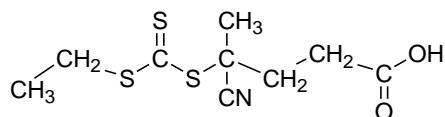
**Composition:**

Mn x 10 <sup>3</sup>	PDI
21.0	1.15

**Synthesis Procedure:**

The polymer is prepared by RAFT polymerization process.

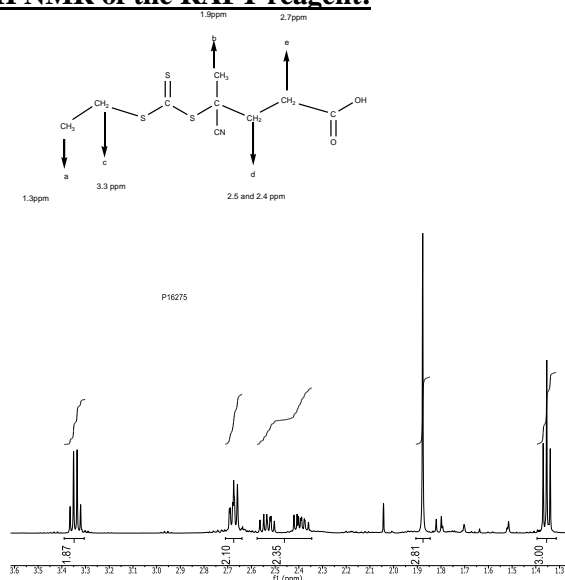
**Structure of RAFT reagent:**



**Composition:**

Formula	C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub> S <sub>3</sub>
Mw	263.40
Purity	> 90%

**<sup>1</sup>H NMR of the RAFT reagent:**



**Characterization:**

The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography in DMF at 50 °C using triple detectors

**Solution Viscosity:**

Intrinsic viscosity was determined in methanol at 25 °C using ubbelohde viscometer. Molecular weight is calculated based on the following constant in Methanol at 25 °C:

$$\eta = 0.0175 \times M_v^{0.68}$$

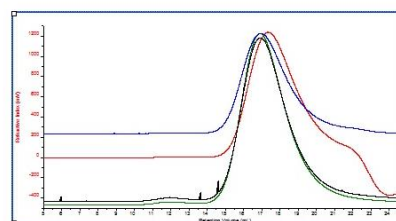
**Solubility:**

Polymer is soluble in methanol, ethanol and water, and it precipitates in hexane.

**SEC chromatogram of the polymer:**

P41431-DMA

dn/dc	0.0870
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA64K-Oct2018-0006.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
P41431 1 2018-10-30	21,053	24,226	29,793	0.1713	1.151