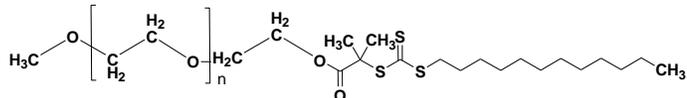


**Sample Name:** Poly(ethylene oxide) methyl ether,  $\omega$ -RAFT-terminated

**$^1\text{H}$  NMR of the product:**

**Sample #:** P16087-mPEG-RAFT

**Structure:**



**Composition:**

$M_n \times 10^3$	2.0
PDI	1.1
RAFT functionality (by NMR)	>90%

**Solubility:**

Poly (ethylene oxide) is soluble in toluene,  $\text{CHCl}_3$ , Acetone, THF and water. It is Insoluble in ether, hexane and Precipitated from DCM or  $\text{CHCl}_3$  into ether.

**Characterization:**

PEO bearing RAFT functionality was characterized by NMR by comparing the integrals ratio of the peaks at 3.36 and 3.63 ppm, and 3.63 and 4.24 ppm, respectively.

**Chemical shifts assignments**

