Table 2: Induction times, activation energies, and associated monomolecular hydroperoxide decomposition rate constants, compared with literature data. Sources: A: [Richaud, Audouin, Fayolle, Verdu, and Matisova-Rychla (2012)](#_ENREF_63), B: [M. Touffet, Allouche, Ariane, and Vitrac (2021)](#_ENREF_75), C: [Maxime Touffet, Smith, and Vitrac (2023)](#_ENREF_77) D: [Yanishlieva (1973)](#_ENREF_83), E: [Hatate, Kawano, and Sone (1989)](#_ENREF_32). \* Determined from induction times.

|  |  |  |  |
| --- | --- | --- | --- |
| FAME | Methyl oleate | Methyl linoleate | Methyl linolenate |
| (s) | 1057 | 140 | 85 |
| from Eq.(S3) (s-1) | 3.65·10-4 | 2.8·10-3 | 4.5·10-3 |
| from literature (s-1) | 2.59·10-4 A\*  (2.11±1.86)·10-4 B  3.00·10-4 C | 0.73·10-3 D:  3.1·10-3 A\*  (0.59±0.52)·10-3 B  0.70·10-3 C | 4.6·10-3 A\*  (0.61±0.56)·10-3 B  0.90·10-3 C |
| (kJ·mol-1) | 89 | 79 | 60 |
| from literature (kJ·mol-1) | 73.6 E  104.1 A  74.8±5.58 B  90 C | 88.7 A  64.7±4.26 B  79C | 73.6 A  51.2±8.23 B  67C |
| (kJ·mol-1) | 65 | 61 | 55 |