


ARTICLE

## Thermo-oxidative aging of linear and branched alcohols as stability criterion for their use as e-fuels

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### Supplementary Information

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Anne Lichtinger,<sup>a</sup> Maximilian J. Poller,<sup>a</sup>  Olaf Schröder,<sup>b</sup> Julian Türck,<sup>c,d</sup> Thomas Garbe,<sup>e,g</sup> Jürgen Krahl,<sup>f,g</sup> Markus Jakob<sup>b</sup> and Jakob Albert<sup>\*a</sup>

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### 1. Carbon mass fraction

**Table S1:** Carbon mass fraction after 120 h aging of 1-hexanol, 1-octanol and 2-hexanol.

aging product	carbon mass fraction (after 120 h) [m%]	aging educt
1-hexanol	63.21	1-hexanol
hexanal	0.859	1-hexanol
hexanoic acid	6.25	1-hexanol
hexyl hexanoate	13.93	1-hexanol
hexyl formate	1.34	1-hexanol
hexyl acetate	0.135	1-hexanol
hexyl propanoate	0.0445	1-hexanol
hexyl butanoate	0.221	1-hexanol
1-pentanol	0.917	1-hexanol
pentanoic acid	1.73	1-hexanol
carbon dioxide	3.10	1-hexanol
other products	8.26	1-hexanol
1-octanol	56.92	1-octanol
octanal	0.56	1-octanol

octanoic acid	6.99	1-octanol
octyl octanoate	16.32	1-octanol
octyl formate	2.18	1-octanol
octyl acetate	1.26	1-octanol
octyl butanoate	0.39	1-octanol
1-heptanol	0.26	1-octanol
heptanoic acid	0.76	1-octanol
1-hexanol	0.013	1-octanol
hexanoic acid	0.092	1-octanol
1-pentanol	0.011	1-octanol
pentanoic acid	0.17	1-octanol
carbon dioxide	3.07	1-octanol
other products	11.00	1-octanol
2-hexanol	80.33	2-hexanol
2-hexanone	10.09	2-hexanol
acetic acid	0.032	2-hexanol
carbon dioxide	1.40	2-hexanol

<sup>a</sup> Hamburg University, Institute of Technical and Macromolecular Chemistry, Bundesstrasse 45, 20146 Hamburg, Germany

<sup>b</sup> Coburg University of Applied Sciences and Arts, Friedrich-Streib-Strasse 2, 96450 Coburg, Germany

<sup>c</sup> Leuphana University, Universitaetsallee 1, 21335 Lueneburg, Germany.

<sup>d</sup> TECOSOL GmbH, Jahnstrasse 2, 97199 Ochsenfurt, Germany

<sup>e</sup> Volkswagen AG, Berliner Ring 2, 38440 Wolfsburg, Germany

<sup>f</sup> OWL University of Applied Sciences and Arts, Campusallee 12, 32657 Lemgo, Germany

<sup>g</sup> FUELS JOINT RESEARCH GROUP, www.fuels-jrg.de, Germany

\* E-Mail: jakob.albert@uni-hamburg.de