

## Supplementary: Design rules for environmental biodegradability of phenylalanine alkyl ester linked ionic liquids

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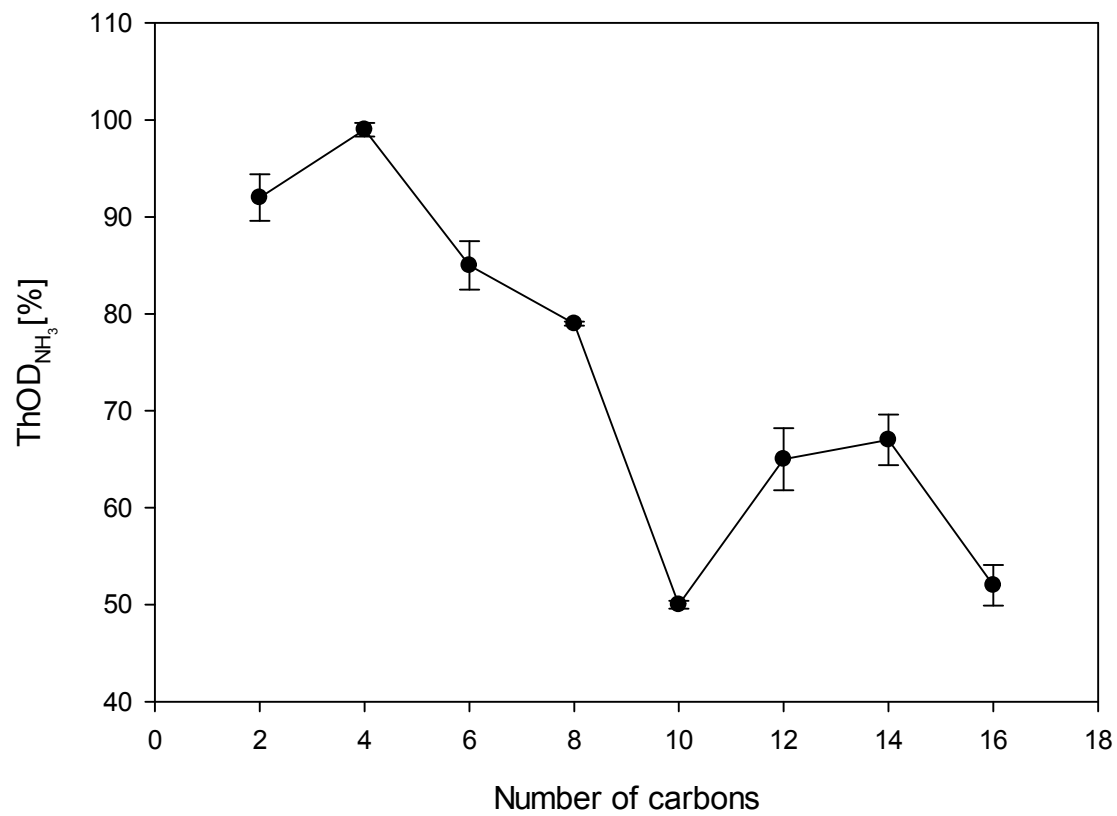
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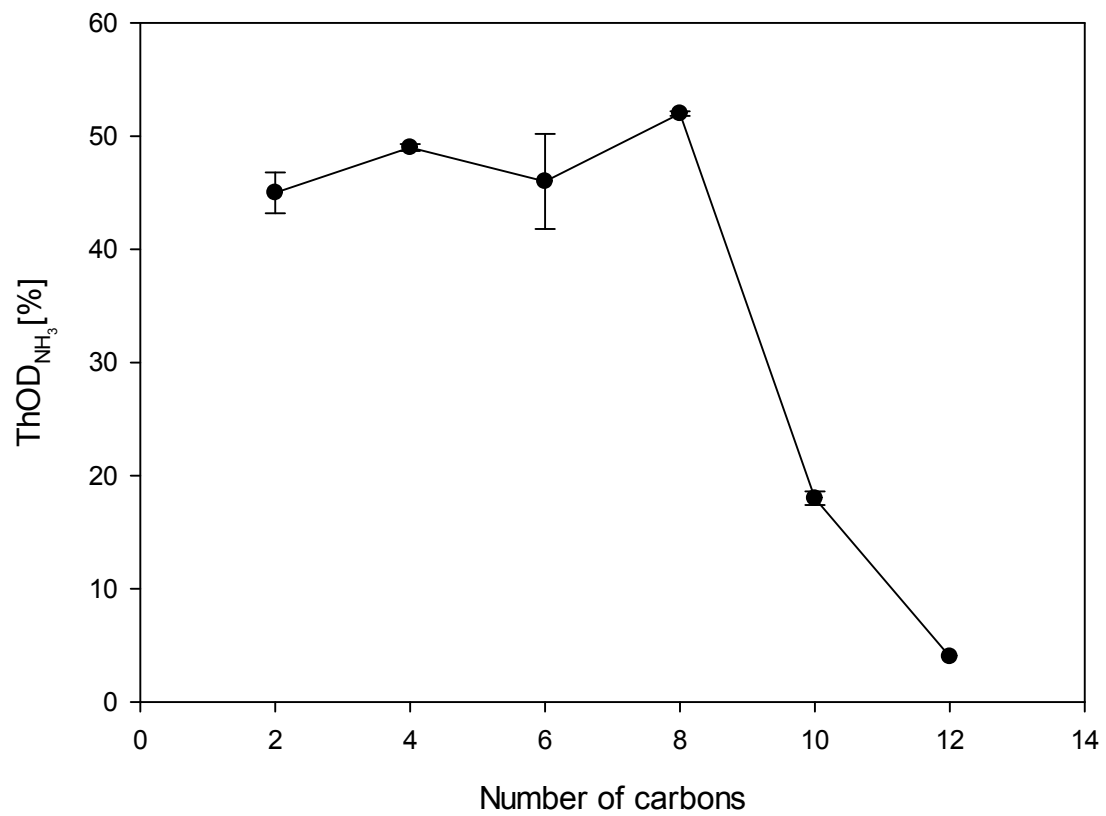
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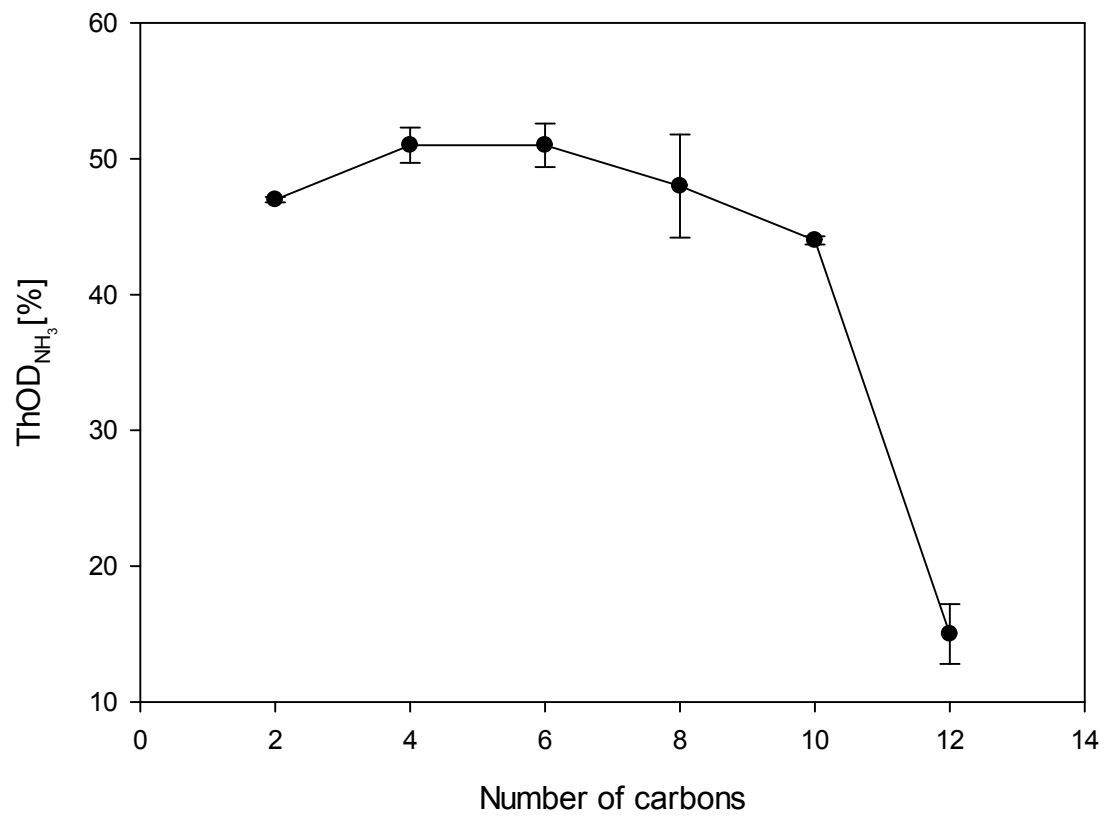
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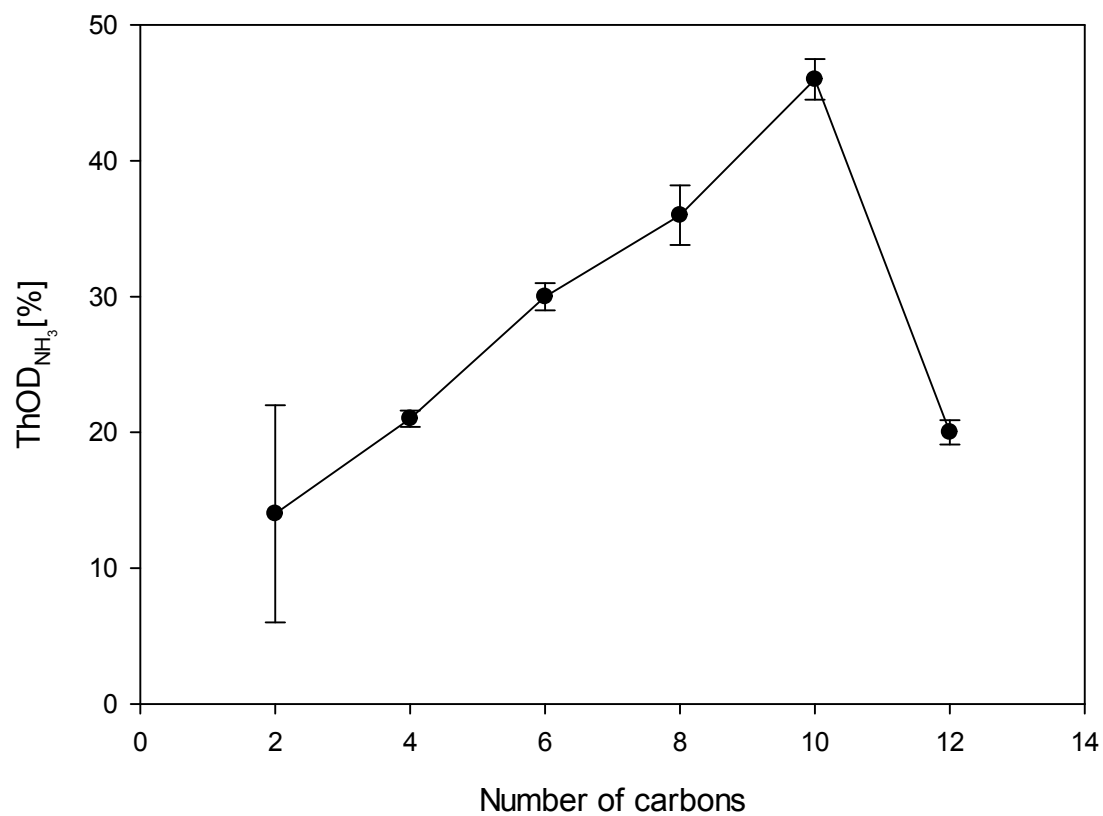
**Figure S1:** Correlation of the length of PheC<sub>n</sub> carbon chains with the biodegradation rate.



**Figure S2:** Correlation of the length of PyPheC<sub>n</sub> carbon chains with the biodegradation rate.



**Figure S3:** Correlation of the length of ImPheC<sub>n</sub> carbon chains with the biodegradation rate.



**Figure S4:** Correlation of the length of CholPheC<sub>n</sub> carbon chains with the biodegradation rate.