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Supercritical extraction of solid materials: A practical correlation related with process scaling

Alexis López-Padilla, Alejandro Ruiz-Rodriguez, Guillermo Reglero, Tiziana Fornari

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Highlights:

- 58 supercritical overall extraction curves (OECs) were fitted to Barton model
- OECs cover different vegetal materials, operation conditions and extractors
- Barton kinetic constants were reasonable correlated with solvent flow rate
- Extractor length and diameter and Schmidt number are involved in the correlation
- Correlation developed stands a tool for supercritical process scaling