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**Choline chloride-based deep eutectic solvents in CaO-catalyzed ethanolysis of
expired sunflower oil**

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Abbreviations: ChCl:DMU - choline chloride:1,3-dimethylurea; ChCl:EG - choline chloride:ethylene glycol; ChCl:G - choline chloride:glycerol; ChCl:PG - choline chloride:propylene glycol; ChCl:TU - choline chloride:thiourea, ChCl:U - choline chloride:urea; DES - deep eutectic solvent; FAEE - fatty acid ethyl ester; HBD - hydrogen bond donor; TAG - triacylglycerol.

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