

RTFO Process Guidance - list of renewable fuels

Valid from 15 December 2012 - v5

This document contains a list of renewable fuels and their renewability.

It should be used in conjunction with the RTFO Guidance Part One: Process Guidance, version 4.5, chapter 2 which details how this list is derived and how it will be updated.

This document may be updated during the course of the obligation period: any changes will be communicated to suppliers.

Fuels on this list will only be included in ROS as and when a supplier wishes to supply them. The latest version of this document can be found on the DfT website's [RTFO Guidance page](#).

Table 1 - List of known renewable fuels.

Fuel (IUPAC nomenclature)	Percentage renewable (by volume)	Production pathway	Source
Ethanol	100%	Wholly from biomass	
Methanol	100%	Wholly from biomass	
Pure plant oil	100%	Wholly from biomass	
Butanol	100%	Wholly from biomass	
Hydrotreated vegetable oil	100%	Hydrogen wholly from biomass and vegetable oils	
Biogas	100%	Wholly from biomass	
FAME - fatty-acid-methyl-esters	100% ¹	Transesterification of vegetable oils with methanol either (i) wholly from biomass or (ii) from fossil sources	Section 5(4B)(c) of the RTFO Order
Bio-ETBE - ethyl-tertiary-butyl-ether (2-	47%	produced from ethanol wholly from biological sources and isobutylene (2-	Section 5(4B)(a) of the RTFO Order - derived from 2003

¹ The RTFO order does not regard fossil methanol used in FAME production as renewable, however it does deem the whole of the volume of FAME produced on this basis to be eligible for RTFCs

ethoxy-2-methyl-propane)		methyl-propene)	Biofuels Directive,
Bio-MTBE - methyl-tertiary-butyl-ether (2-methoxy-2-methyl-propane)	36%	Produced from methanol wholly from biological sources and isobutylene (2-methyl-propene)	Section 5(4B)(b) of the RTFO Order - derived from 2003 Biofuels Directive,
Bio-TAEE - tertiary-amyl-ethyl-ether (2-ethoxy-2-methyl-butane)	Not yet assessed		
Hydrotreated vegetable oil	Not yet assessed	Hydrogen not from biomass and vegetable oils	
Co-processed hydrogenated vegetable oil	To be assessed on a case by case basis		