

Title (en)
SMALL ENGINE FUEL COMPOSITION WITH SPECIFIC CONTENT OF ISO-OCTANE

Title (de)
KRAFTSTOFFZUSAMMENSETZUNG FÜR KLEINMOTOREN MIT SPEZIFISCHEM ISO-OKTANGEHALT

Title (fr)
COMPOSITION DE CARBURANT POUR PETITS MOTEURS AVEC TENEUR SPÉCIFIQUE EN ISO-OCTANE

Publication
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Application
EP 22176738 A 20220601

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Abstract (en)
The present invention is concerned with a gasoline composition for a small utility engine comprising 90 vol-% or more C5-C12 paraffins, 1 vol-% or less of naphthenes, 1 vol-% or less of aromatics, 1 vol-% or less of oxygenates, based on the total gasoline composition, and having a RON and/or MON of at least 92 wherein the content of iso-octane is at least 60.2 vol-%, the content of C5 isoparaffins is at least 10 vol-%, and the content of C10 to C14 isoparaffins is 1 to 5 vol-%, based on the total gasoline composition, a process for preparing the same and its use. It further pertains to the use of iso-octane in order to lower the final boiling point and/or the volume percentage vaporizing within 20° C, in particular within 10° C below the final boiling point of a gasoline composition for a small utility engine, and the use of renewable iso-octane for lowering the temperature at which 30 vol-%, preferably at which 40 vol-% of a gasoline for a small utility engine are vaporized, while increasing the temperature at which 80%, preferably at which 90% thereof are vaporized.

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C10L 1/06 (2006.01)

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Citation (applicant)

- WO 2018069137 A1 20180419 - NESTE OYJ [FI]
- US 2015126787 A1 20150507 - GRUBER PATRICK R [US], et al
- WO 2011140560 A1 20111110 - GEVO INC [US], et al
- WO 2018069137 A1 20180419 - NESTE OYJ [FI]

Citation (search report)

- [X1] WO 2008073118 A1 20080619 - SHELL INT RESEARCH [NL], et al
- [I] GB 465459 A 19370503 - INT HYDROGENATION PATENTS CO
- [I] FR 2846003 A1 20040423 - TOTAL FRANCE [FR]
- [ID] WO 2018069137 A1 20180419 - NESTE OYJ [FI]

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