

Title (en)
GASOLINE COMPOSITIONS

Title (de)
BENZINZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS D'ESSENCE

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Application
EP 09772460 A 20090630

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Abstract (en)
[origin: WO2010000760A2] The present invention provides a gasoline composition comprising: (i) base gasoline; and (ii) a composition comprising component A and at least one component selected from categories (a) and (b) below: (a) component B, and (b) one component selected from components C, D and E, wherein: component A is an ester or mixture of esters having formula (I): $R_1C(O)-O-R_2$ wherein R_1 is selected from a C1-6 alkyl group and R_2 is selected from a C1-4 alkyl group and wherein the total number of carbon atoms in R_1 and R_2 is in the range of from 5-9, with the proviso that component A has a boiling point or boiling point range within the temperature range of from 90 to 200 °C; component B is ethanol; component C is a compound of formula (II) or formula (III), wherein the R_3 , R_4 , R_5 and R_6 groups are independently selected from hydrogen and C1-6 hydrocarbyl groups, with the proviso that component C has a boiling point or boiling point range of at most 110 °C; component D is butanol; and component E is an ether of the general formula (IV): $R_7-O-C(Me)_3$ wherein R_7 is selected from methyl, ethyl or mixtures thereof, wherein the concentration of the components in the composition is calculated using the following equation (equation I). wherein : $n = 1$ is component B, $n = 2$ is component A, $n = 3$ is any one of components C, D or E, V_n is the volume fraction of the component $n = 1, 2$ or 3 in the composition comprising component A and at least one component selected from components B, C, D and E, $E70_n$ is the blending E70 value of the component represented by n , $E100_n$ is the blending E100 value of the component represented by n , $E70_{base}$ is in the range of from 10 to 55 %vol., and $E100_{base}$ is in the range of from 35 to 75 %vol..

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Citation (examination)
KENNETH D ROSE: "Ethanol/Petrol Blends: Volatility Characterisation in the Range 5-25 vol% Ethanol Final Report", 31 December 2009 (2009-12-31), XP055324265, Retrieved from the Internet <URL:https://ec.europa.eu/energy/sites/ener/files/documents/2010_bep525_final_report.pdf> [retrieved on 20161129]

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