

Title (en)  
GASOLINE COMPOSITIONS

Title (de)  
BENZINZUSAMMENSETZUNGEN

Title (fr)  
COMPOSITIONS D'ESSENCE

Publication  
**EP 2303999 A2 20110406 (EN)**

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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