

FORMULATIONS OF DENATURED ALCOHOL TREATED AS EXEMPT UNDER ARTICLE 27 (1)(b) IN THE UNITED KINGDOM

These specific formulations may only be used for their particular approved use.

	Formulation	Approved use
1	95 % by volume of alcohol and 5 % by volume of wood naphtha ¹	Variety of manufacturing and industrial processes.
2	99.9% by volume of alcohol ² and 0.1% by volume tertiary butyl alcohol. Denatonium benzoate ³ is added to the resulting mixture in the proportion of 10 micrograms per milliliter.	1. Manufacture of skin preparations - perfumes, toiletries, cosmetics and external medical applications such as medicated creams and ointments. 2. Printing ink. 3. Biocides. 4. Flame retardant phosphate esters.
3	97.9% by volume of alcohol ² and not less than 2% by volume cyclohexane and 0.1% by volume of isopropanol.	1. Printing inks (particularly for use on food wrappers). 2. Coatings.
4	97.9% by volume of alcohol ² and not less than 2% by volume of ethyl acetate and 0.1% by volume of isopropanol.	1. Printing inks (particularly for use on food wrappers). 2. Coatings.
5	97.5% by volume of alcohol ² and not less than 2% by volume of methanol and 0.5% by volume of hexane.	Rocket fuel propellants.
6	95% by volume of alcohol ² and not less than 5% by volume of benzyl benzoate.	Perfumes/toiletries.
7	98% by volume of alcohol ² and not less than 2% by volume of isopropanol. Denatonium benzoate ³ is added to the resulting mixture in the proportion of 10 micrograms per milliliter.	1. Kitchen hard surface cleaners; 2. Washing-up liquid.
8	95% by volume of alcohol ² and not less than 5% by volume of isopropanol.	1. Car screenwash. 2. Disinfectants specifically for sterile environments e.g. areas where pharmaceutical products are produced*
9	99% by volume of alcohol ² and not less than 1% Methyl ethyl ketone ⁴ . 1 gram of Denatonium benzoate is added to the resulting mixture (per 100 litres).	Car screenwash.
10	99% by volume of alcohol ² and not less than 1% by volume of methyl alcohol. Denatonium benzoate is added to the resulting mixture in the proportion of 10 micrograms per milliliter.	Bioethanol for use as a road fuel additive.
11	94.93% by volume of alcohol ² and not less than 5% by volume of Isopropanol and 0.07% by volume of Tertiary Butyl Alcohol.	Hairstyling products.
12	99% by volume of alcohol and 1% unleaded Petrol with a Research Octane Number (RON) greater than 91	Bioethanol used as road fuel

¹ Wood naphtha must, to the satisfaction of the Commissioners of Customs and Excise in the UK, possess such properties as to render a mixture of one part of the naphtha with 19 parts of plain spirit of a strength of not less

than 95 % abv unfit for use as a beverage. Wood naphtha must contain not less than 72%by volume of methyl alcohol.

² Alcohol of a strength of not less than 85% abv.

³ Denatonium benzoate is benzyldiethyl [(2,6-xylylcarbonyl) methyl] ammonium benzoate.

⁴ (consisting of 95 to 96% by weight of Methyl ethyl ketone, 2.5 to 3% by weight methyl isopropyl ketone and 1.5 to 2% by weight of ethyl isopropyl ketone)