

ASC SPECIFICATION NO 292

D.M.P. INSECT REPELLENT (DI-METHYL PHTHALATE).

1. **Description.** A colourless or slightly yellowish liquid, odourless or possessing a faint odour.
2. **Examination.**
 - a. **Specific Gravity.** It shall have a specific gravity ranging from 1.186 to 1.192 at 20°C.
 - b. **Refractive Index.** The refractive index when determined at 20°C shall lie between 1.514 -1.516.
 - c. **Acidity.** 20 c.c. mixed with 50 c.c. alcohol (90% previously neutralized to solution of phenolphthalein) shall require for neutralization not more than 6.2 c.c. of N/100 sodium hydroxide using phenolphthalein as indicator.
 - d. **Residue on ignition.** Shall not leave more than 0.02% residue on ignition.
 - e. **Di-methyl phthalate.** The Di-methyl phthalate content shall not be less than 98% when determined in accordance with Appendix 'A' to this specification.
3. **Packing and Marking.** The DMP Insect Repellent shall be supplied in:
 - (a) **Packing.**
 - (i) Glass bottles containing 2 fluids ozs.
 - (ii) 16 bottles in cartoon cardboard.
 - (iii) 12 cartons in cases wood packing lined with paper package waterproof.

Or

5 Gallons Polyethylene lined drum.
 - (b) **Marking.**
 - (i) Month/Year of Manufacture or contents.
 - (ii) ASC Sups.
 - (iii) Manufacturer's name, initials or recognised trade mark.
 - (iv) Quantity of the contents.

On the opposite side of the above (i.e i to iv) following shall be stencilled in Block Red 1/2" letters:

"GLASS WITH CARE"

4. **Inspection.** Inspection of supplies tendered for acceptance shall be carried out by an officer acting on behalf of the Director of Supplies and Transport by a representative of the Department of Supply and Development (Supplies Wing). Boil about 50 gms of alcohol of expel carbon dioxide and neutralise it to solution of phenolphthalein. Dissolve about 1 gm of the sample accurately weighed in 5 c.c of the neutralised alcohol in a hard glass flask and neutralise the free acidity in the solution with N/10 potassium hydroxide using 0.2 c.c. of phenolphthalein as indicator. Add 40 c.c. of alcohol potassium hydroxide (N/2) and reflux on a water bath for 1 hour hydroxide using 0.2 c.c. of phenolphthalein as indicator. Add 40 c.c. of a solution of phenolphthalein as indicator. Report the determination without the sample of di-methyl phthalat. The difference between the two titrations is the amount of alcoholic potassium hydroxide (N/2) consumed by the sample.

Each c.c. of N/2 alcoholic potassium hydroxide = 0.04855 gm of Di-methyl phthalate.


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