§ 21.81 Formula No. 46.

(a) Formula. To every 100 gallons of alcohol add:
Twenty-five fluid ounces of phenol, U.S.P.,
and 4 fluid ounces of methyl salicylate, N.F.

(b) Authorized uses. (1) As a solvent:
An antiseptic, sterilizing, and bathing
solution having restricted use.

(2) Miscellaneous uses:

§ 21.82 Product development and pilot plant
uses (own use only).

(c) Conditions governing use. This for-
mula may be used only by institutions
and organizations which are of a
semipublic character and engaged in
charitable work.

Subpart E—Specifications for
Denaturants

§ 21.91 General.

Denaturants prescribed in this part
shall comply with the specifications
set forth in this subpart. However, in
order to meet requirements of national
defense or for other valid reasons, the
appropriate TTB officer may, pursuant
to written application filed by the
denaturer, authorize variations from
such specifications or authorize the use
of substitute denaturants if such vari-
ation or substitution will not jeop-
dardize the revenue. Each such applica-
tion shall identify the applicant by
name, address, and permit number;
state the number of each formula of
specially denatured alcohol involved;
explain why the use of the substitute
denaturant, or the variation from spec-
ifications, as the case may be, is nec-
essary; and include, as applicable, ei-
ther the identity of the approved dena-
turant for which substitution is desired
and the identity of the substitute dena-
turant (including the name of the man-
ufacturer) or the identity of the pre-
scribed specifications and the proposed
variation from those specifications.
The application shall be accompanied
by an 8-ounce sample of the proposed
denaturing material for analysis.

[T.D. ATF–133, 48 FR 24673, June 2, 1983, as
1, 2001]

§ 21.92 Denaturants listed as U.S.P. or
N.F.

Denaturing materials and products
listed in this part as “U.S.P.” or
“N.F.” shall meet the specifications
set forth in the current United States
Pharmacopoeia or National Formulary,
or the latest volume of these publica-
tions in which the denaturants ap-
peared as official preparations.

§ 21.93 Acetaldehyde.

(a) Aldehyde content (as acetaldehyde).
Not less than 95.0 percent by weight.

(b) Color. Colorless.

(c) Odor. Characteristic pungent,
fruity odor.

(d) Specific gravity at 15.56 °C. Not less than 0.7800.

§ 21.94 Acetaldol.

(a) Purity. Not less than 90 percent by
weight acetaldol as determined by the
following method:

Dissolve 15 grams of the acetaldol in dis-
tilled water and dilute to 1 liter in a volu-
metric flask. Transfer 5 ml of this solution
to a 250 ml glass-stoppered flask containing
25 ml distilled water. Add 25 ml of a freshly
prepared 1 percent sodium bisulfite solution.
Prepare a blank omitting the acetaldol solu-
tion. Place the flasks in a dark place away
from excessive heat or cold and allow to
stand six hours. Remove flasks and titrate
free bisulfite with 0.1 N iodine solution using
starch indicator.

Percent acetaldol by weight=([ml blank
– ml test]×200×0.44/weight of sample

Titrations in excess of 100 percent may be
obtained if the sample contains appreciable
amounts of acetaldehyde.

(b) Specific gravity at 20 °C. 1.098 to
1.105.

§ 21.95 Alpha terpineol.

(a) Boiling point at 752mm 218.8–219.4
°C.

(b) Density at 15° 0.9386.

(c) Refractive index at 20° 1.4831.