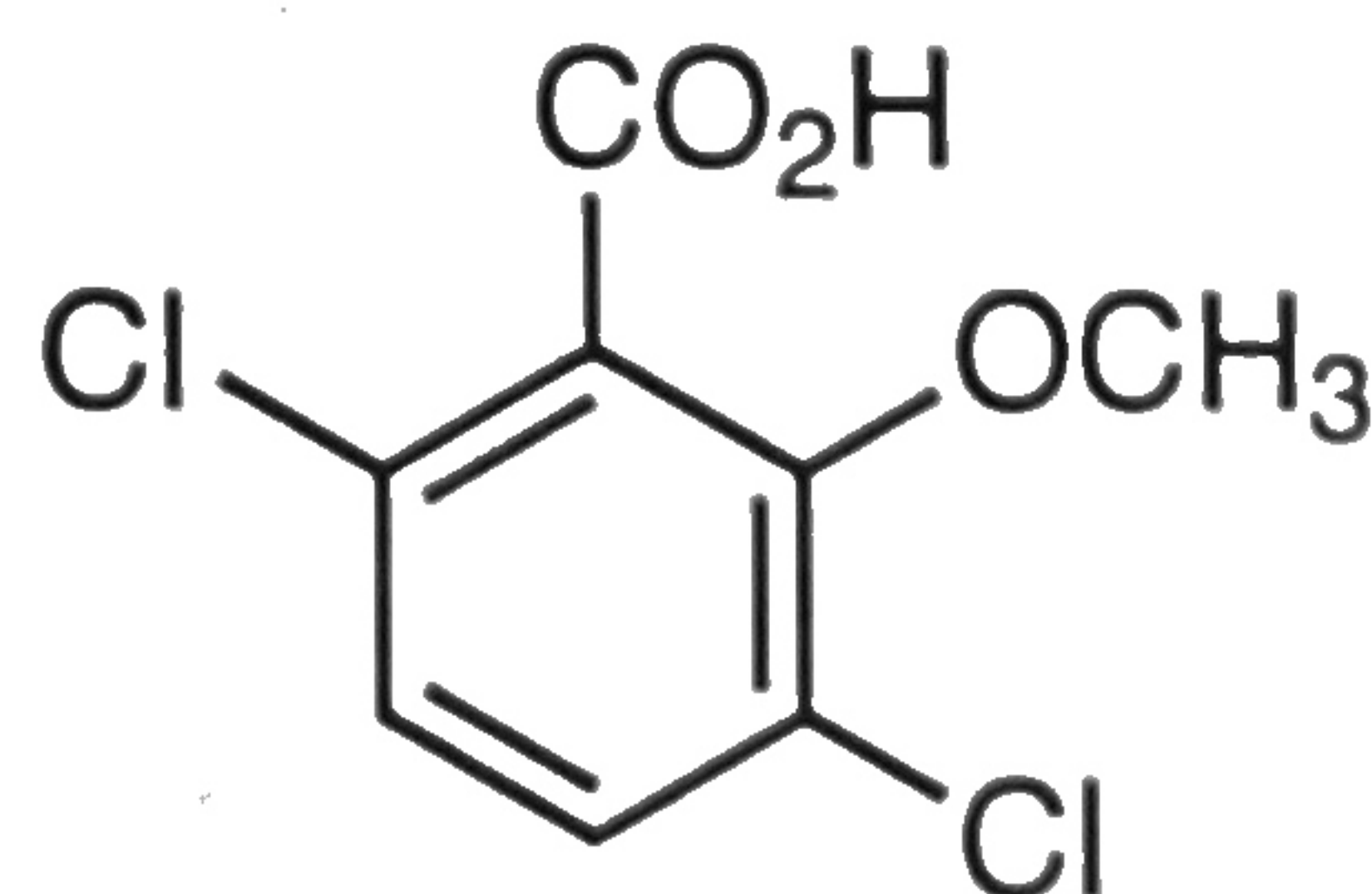


benzoic acid



NOMENCLATURE

dicamba

Common name dicamba (BSI, E-ISO, (*m*) F-ISO, ANSI, WSSA), *dianat* (former exception, USSR), MDBA (JMAF).

IUPAC name 3,6-dichloro-*o*-anisic acid.

C.A. name 3,6-dichloro-2-methoxybenzoic acid. **CAS RN** [1918-00-9]

Development code Velsicol 58-CS-11; SAN 1214H.

dicamba-dimethylammonium

CAS RN [2300-66-5].

dicamba-potassium

CAS RN [10007-85-9].

dicamba-sodium

CAS RN [1982-69-0].

PHYSICO-CHEMICAL PROPERTIES

dicamba

Composition Tech. grade is purity 80-90% *m/m*, remainder being mainly 3,5-dichloro-*o*-anisic acid.

Mol. wt. 221.0 **Mol. formula** C₈H₆Cl₂O₃

Form Colourless crystals; tech. grade is a buff crystalline solid. **M.p.** 114-116 °C

B.p. > 200 °C **V.p.** 4.5 mPa (25 °C) **SG/density** 1.57 (25 °C) **K_{ow}** 3.98 (pH 5), 0.16 (pH 7), 0.58 (pH 9)

Solubility In water 6.5 g/l (25 °C). In ethanol 922, cyclohexanone 916, acetone 810, dichloromethane 260, dioxane 1180, toluene 130, xylene 78 (all in g/l, 25 °C). **Stability** Resistant to oxidation and hydrolysis under normal conditions. Stable in acids and alkalis. Decomposes at *c.* 200 °C. **pK_a** 1.87.

dicamba-dimethylammonium

Mol. wt. 266.1 **Mol. formula** C₁₀H₁₃Cl₂NO₃

Solubility In water 720 g acid equivalent/l.

dicamba-potassium

Mol. wt. 259.1 **Mol. formula** C₈H₅Cl₂KO₃

Solubility In water 480 g acid equivalent/l.