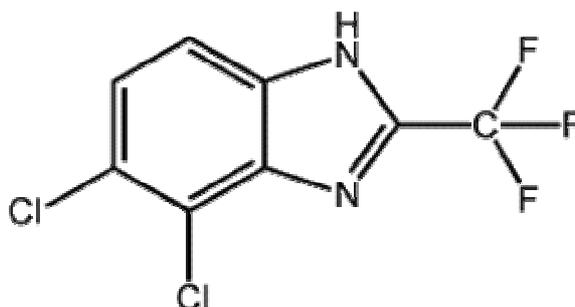


# Chlorflurazole

- Chlorflurazole
- Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-
- 4,5-Dichloro-2-trifluoromethylbenzimidazole

**Formula**  $C_8H_3Cl_2F_3N_2$

**Structure**



**Description** A crystalline solid.

**Uses** Herbicide.

## Registry Numbers and Inventories.

<b>CAS</b>	3615-21-2
<b>NIH PubChem CID</b>	19232
<b>RTECS</b>	DD7350000
<b>RTECS class</b>	Agricultural Chemical and Pesticide
<b>Beilstein/Gmelin</b>	960437
<b>EPA OPP</b>	327200
<b>Swiss Giftliste 1</b>	G-3340

## Properties.

<b>Formula</b>	$C_8H_3Cl_2F_3N_2$
<b>Formula mass</b>	255.03
<b>Melting point, °C</b>	218
<b>Boiling point, °C</b>	379
<b>Vapor pressure, mm<sub>Hg</sub></b>	.00004
<b>Critical temperature</b>	633
<b>Critical pressure</b>	35

**Solubility in water** Insoluble

**pKa/pKb** 6.35 pKa

**Partition coefficient,  
pK<sub>ow</sub>** 3.5

## Hazards and Protection.

### Storage

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

### Handling

All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

### Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Where chemical resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

### Respirators

Use NIOSH/MSHA approved respirator appropriate for exposure of concern.

### Small spills/leaks

(Non-Specific -- Pesticide, solid, n.o.s.) Do not touch spilled material; stop leak if you can do it without risk. Small spills: take up with sand or other noncombustible absorbent material and place into containers for later disposal. Small dry spills: with clean shovel place material into clean, dry container and cover; move containers from spill area. Large spills: dike far ahead of spill for later disposal.

### Stability

No data.

### Incompatibilities

Incompatible with isocyanates, halogenated organics, peroxides, phenols (acidic), epoxides, anhydrides, and acid halides.

## Fire.

### Fire fighting

(Non-Specific -- Pesticide, solid, n.o.s.) Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Wear self-contained (positive pressure if available) breathing apparatus and full protective clothing. (Non-Specific -- Pesticide, solid, n.o.s.) Small fires: dry chemical, carbon dioxide, water spray, or foam. Large fires: water spray, fog, or foam.

## Health.

**Poison\_Class** 2

**Exposure effects**

<b>Ingestion</b>	See inhalation.
<b>Inhalation</b>	(Non-specific -- Pesticide, solid, n.o.s.) Poisonous if swallowed. Inhalation of dust poisonous.
<b>Skin</b>	See inhalation.
<b>Eyes</b>	See inhalation

**First aid**

<b>Ingestion</b>	Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.
<b>Inhalation</b>	If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.
<b>Eyes</b>	If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**Transportation**

<b>USCG CHRIS Code</b>	CFZ
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