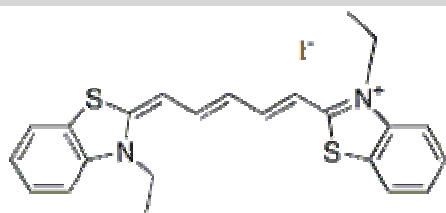


### 3,3'-DIETHYLTHIADICARBOCYANINE IODIDE Basic information

Product Name:	3,3'-DIETHYLTHIADICARBOCYANINE IODIDE
Synonyms:	DELVEX;DEJO;COMPOUND 01748;EASTMAN 7663;DILOMBRIN;DILOMBRINE;DIETHYLTHIADICARBOCYANINE IODIDE;DITHIAZANINE IODIDE
CAS:	<b>514-73-8</b>
MF:	C23H23IN2S2
MW:	518.48
EINECS:	208-186-7
Product Categories:	
Mol File:	<a href="#">514-73-8.mol</a>



### 3,3'-DIETHYLTHIADICARBOCYANINE IODIDE Chemical Properties

mp	249 °C (dec.)(lit.)
storage temp.	Poison room
Merck	14,3369
BRN	3838938

### Safety Information

Hazard Codes	T+
Risk Statements	28-36/37/38
Safety Statements	26-28-36/37-45
RIDADR	UN 2811 6.1/PG 2
WGK Germany	3
RTECS	DL7060000
F	8
HazardClass	6.1
PackingGroup	II



## MATERIAL SAFETY DATA SHEET

3,3'-Diethylthiadicarbocyanine iodide, laser grade, 99%

### Section 1 - Chemical Product and Company Identification

<b>MSDS Name:</b>	3,3'-Diethylthiadicarbocyanine iodide, laser grade, 99%
<b>Catalog Numbers:</b>	40747-0000, 40747-0010
<b>Synonyms:</b>	
<b>Company Identification:</b>	Acros Organics BVBA Janssen Pharmaceuticaaan 3a 2440 Geel, Belgium
<b>Company Identification: (USA)</b>	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
<b>For information in the US, call:</b>	800-ACROS-01
<b>For information in Europe, call:</b>	+32 14 57 52 11
<b>Emergency Number, Europe:</b>	+32 14 57 52 99
<b>Emergency Number US:</b>	201-796-7100
<b>CHEMTREC Phone Number, US:</b>	800-424-9300
<b>CHEMTREC Phone Number, Europe:</b>	703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
514-73-8	3,3'-Diethylthiadicarbocyanine iodide		208-186-7

**Hazard Symbols:** XI



**Risk Phrases:** 36/37/38

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Irritating to eyes, respiratory system and skin.*

#### Potential Health Effects

The toxicological properties of this substance have not been fully investigated.

### Section 4 - First Aid Measures

- Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
- Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.
- Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.
- Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

#### Notes to Physician:

### Section 5 - Fire Fighting Measures

- General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
- Extinguishing Media:** Use agent most appropriate to extinguish fire.

### Section 6 - Accidental Release Measures

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section.

### Section 7 - Handling and Storage

- Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.
- Storage:** Store in a cool, dry place. Keep container closed when not in use. Poison room locked.

## Section 8 - Exposure Controls, Personal Protection

### Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

### Exposure Limits

CAS# 514-73-8:

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Crystalline powder
<b>Color:</b>	green
<b>Odor:</b>	Not available
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	Not available
<b>Freezing/Melting Point:</b>	258 deg C ( 496.40°F)
<b>Autoignition Temperature:</b>	Not available
<b>Flash Point:</b>	Not available
<b>Explosion Limits: Lower:</b>	Not available
<b>Explosion Limits: Upper:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	Not available
<b>Specific Gravity/Density:</b>	

**Molecular Weight:** 518.48

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	Strong oxidants.
<b>Incompatibilities with Other Materials</b>	Not available
<b>Hazardous Decomposition Products</b>	Irritating and toxic fumes and gases.
<b>Hazardous Polymerization</b>	Hazardous Polymerization

<b>RTECS#:</b>	CAS# 514-73-8: DL7060000
<b>LD50/LC50:</b>	RTECS: Not available. Other:
<b>Carcinogenicity:</b>	3,3'-Diethylthiadicarbocyanine iodide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information.

Not available

Dispose of in a manner consistent with federal, state, and local regulations.

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
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<b>Shipping Name:</b>	TOXIC SOLID, ORGANIC, N.O.S.*	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.
<b>Hazard Class:</b>	6.1	6.1	6.1

<b>UN Number:</b>	2811	2811	2811
<b>Packing Group:</b>	II	II	II

Section 15 - Regulatory Information



## European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 514-73-8: Not available

Canada

CAS# 514-73-8 is listed on Canada's DSL List

## US Federal

TSCA

CAS# 514-73-8 is listed on the TSCA Inventory.

## Section 16 - Other Information

**MSDS Creation Date:** 7/16/1996

**Revision #0 Date** Original.

<b>Synonym:</b>	DiSC <sub>2</sub> (5), DTDCI, 3-Ethyl-2-[5-(3-ethyl-2(3 <i>H</i> )-benzothiazolydene)-1,3-pentadienyl]benzothiazolium iodide
<b>CAS Number:</b>	<a href="#">514-73-8</a>
<b>Linear Formula:</b>	C <sub>23</sub> H <sub>23</sub> IN <sub>2</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	518.48
<b>Beilstein Registry Number:</b>	3838938
<b>EC Number:</b>	208-186-7
<b>MDL number:</b>	<a href="#">MFCD00074829</a>
<b>PubChem Substance ID:</b>	<a href="#">24859507</a>

## Description

<b>Other</b>	Potential sensitive probe. Fluorometric analysis of transferable membrane pores <sup>1</sup> ; Effects of membrane potential on Na cotransports in
<b>Notes</b>	eel intestinal brush-border membrane vesicles <sup>2</sup>

## Properties

<b>grade</b>	for fluorescence
<b>product line</b>	<i>BioChemika</i>
<b>assay</b>	≥98.5% (HPCE)
<b>fluorescence</b>	λ <sub>ex</sub> 605 nm; λ <sub>em</sub> 700 nm in phosphate buffer/SDS pH 7.0
<b>mp</b>	249 °C (dec.)(lit.)

## Safety

<b>Personal Protective Equipment</b>	<a href="#">Eyeshields, Faceshields, Gloves, type P2 (EN 143) respirator cartridges</a>
<b>Hazard Codes</b>	<a href="#">T+</a>
<b>Risk Statements</b>	<a href="#">28-36/37/38</a>
<b>Safety Statements</b>	<a href="#">26-28-36/37-45</a>
<b>RIDADR</b>	UN 2811 6.1/PG 2
<b>WGK Germany</b>	3
<b>RTECS</b>	DL7060000

