Safety data for 1H-benzotriazole

Glossary of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

General

Synonyms: 1,2,3-benzotriazole, 1,2,3-triazaindene, Cobtratec 99,

1,2-aminozophenylene, azimidobenzene, benzene azimide,

benzisotriazole, benztriazole

Use: reagent in the synthesis of enamines

Molecular formula: C₆H₅N₃

CAS No: 95-14-7

EINECS No: 202-394-1

Physical data

Appearance: yellow to beige solid

Melting point: 95 - 99 C

Boiling point: 350 C, (204 C at 15 mm Hg)

Vapour density: 4.1 g/l

Vapour pressure: Density (g cm⁻³): 1.36 Flash point: 170 C

Explosion limits: 2.4% (lower) Autoignition temperature: 210 C Water solubility: 25 g/l at 20 C

Stability

Stable, but may be light sensitive. Incompatible with strong oxidizing agents, heavy metals.

Toxicology

Harmful if swallowed or inhaled. Skin, eye and respiratory irritant.

Toxicity data

(The meaning of any toxicological abbreviations which appear in this section is given $\underline{\text{here.}}$)

ORL-RAT LD50 560 mg kg⁻¹

SKN-RAT LD50 $> 1000 \text{ mg kg}^{-1}$

ORL-MUS LD50 615 mg kg⁻¹

IHL-RAT LC50 1910 mg/m3/3h

Risk phrases

(The meaning of any risk phrases which appear in this section is given <u>here.)</u>

R20 R22 R36 R52 R53.

Environmental information

Only slowly biodegradable; do not dispose of in drains.

Transport information

(The meaning of any UN hazard codes which appear in this section is given here.)

Non-hazardous for air, sea and road freight.

Personal protection

Safety glasses, adequate ventilation, gloves.

Safety phrases

(The meaning of any safety phrases which appear in this section is given here.)
S26 S36 S37 S61.

[Return to Physical & Theoretical Chemistry Lab. Safety home page.]

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SPECIFICATIONS

	Ash:
0.05% Max.	
0.05 /6 Wax.	A A DOLLAR TO A CO.
	Melting Point :
95-98.5 ℃.	
	Moisture(105℃, 2h):
0.40/ 14	Widistare (105 0, 211).
0.1% Max.	
	Sensoric:
Needle-like Powder.	
Needie-like i Owder.	
	Molecular Weight (theoretical):
119.12.	
	Assay %:
00.00/ Min	7103dy 70.
99.0 % Min.	