

PROPIONALDEHYDE

PRODUCT IDENTIFICATION

CAS NO.	123-38-6
EINECS NO.	204-623-0
FORMULA	C ₂ H ₅ CHO
MOL WT.	58.08
H.S. CODE	2912.19
TOXICITY	Oral rat LD50; 1410 mg/kg
SYNONYMS	Propanal; Methylacetaldehyde; Propaldehyde; Propanalaldehyde; Propional; Propionic Aldehyde; Propyl Aldehyde; Propylic Aldehyde; Aldehyde Propionique (French);

RAW MATERIALS

CLASSIFICATION

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	clear mobile liquid with strong pungent odor
MELTING POINT	-81 C
BOILING POINT	48 C
SPECIFIC GRAVITY	0.805
SOLUBILITY IN WATER	Soluble in 5 volumes
pH	
VAPOR DENSITY	1.8
AUTOIGNITION	207 C
REFRACTIVE INDEX	1.3619
NFPA RATINGS	Health: 2; Flammability: 3; Reactivity: 2
FLASH POINT	-30 C (extremely flammable liquid)
STABILITY	Stable under ordinary conditions

APPLICATIONS

Propionaldehyde is used to produce trimethylolethane, pyridine derivatives, pharmaceuticals, propionic acid, polyvinyl acetals, plastics, plasticizers, esters used in lacquers and flavorings, cellulose and rubber chemicals. It is also used as a disinfectant and preservative.

SALES SPECIFICATION

APPEARANCE	clear liquid
PROPIONALDEHYDE	96.0% min
MOISTURE	0.3% max
ACIDITY (as ACETIC ACID)	0.2% max
COLOR	20 max (Pt/Co scale)
IBP	47 C min

TRANSPORTATION

PACKING	
HAZARD CLASS	3 (Packing group: II)
UN NO.	1275

REMARKS