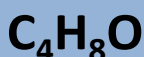




Product Specification

ISO-BUTYRALDEHYDE FOR SYNTHESIS

PRODUCT CODE	125665
SYNONYMS	2-Methylpropionaldehyde
C.I. NO.	N/A
CASR NO.	78-84-2
ATOMIC OR MOLECULAR FORMULA	C ₄ H ₈ O
ATOMIC OR MOLECULAR WEIGHT	72.11
PROPERTIES	Slowly oxidizes on exposure to air & forming isobutyric acid



PARAMETER	LIMIT
Description	Transparent, colourless, highly refractive liquid with pungent odour (colour Max. 10 APHA)
Solubility	5% in ethanol forming clear & colourless soln.
Minimum assay (By GC)	99.0%
Wt. per ml at 20°C	0.788 – 0.790 g
Refractive index (n) _D ²⁰	About 1.3723
Boiling range(60 - 64°C)	Min. 95%
Stabilizer (2,6-Di-tert-butyl-4-methyl phenol)	About 0.1%

Note(s) : Assay (if applicable) method mentioned

WARNING

DANGER

HAZARD STATEMENTS : May cause respiratory irritation. Highly flammable liquid and vapour. Toxic if inhaled. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.

PRECAUTIONARY STATEMENTS

Prevention : Wash hands thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Ground/bond container and receiving equipment. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well ventilated area. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapours/spray. Contaminated clothing should not be allowed out of the workplace. Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves and eye/face protection. Keep container tightly closed. Keep away from heat/sparks/open flame - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge.

Response : Wash contaminated clothing before reuse. If skin irritation or rash occurs, seek medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If skin irritation occurs, seek medical advice/attention. Wear eye/face protection. Call a POISON CENTER or doctor/physician if you feel unwell. Remove/Take off immediately all contaminated clothing. Specific treatment: refer to Label or MSDS. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with

IMDG Code : 3/II
UN No. : 2045
IATA : 3



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water/shower. In case of fire, use alcohol-type foam for extinction. Immediately call a POISON CENTER or doctor/physician. IF INHALED:

Remove to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Gently wash with plenty of soap and water. Wash/Decontaminate removed clothing before reuse

Disposal: Aldehyde is blanketed with sodium sulphite and then mixed with water. After completion of the reaction, dispose off.

Hazard Pictogram(s) :



Flammable liquids



Acute toxicity



Aspiration hazard