

	Technical Data Sheet		NORMAL BUTYRALDEHYDE
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Identification/ Chemical Nature:

N-Butyraldehyde is a 4-carbon aldehyde species that is a colourless and clear liquid with a pungent Odor and sparingly soluble in water.	<u>Synonyms:</u> N-Butyraldehyde, Butanal, Butyric aldehyde, Butanaldehyde, Butal, Butaldehyde, Butalyde, Butyl aldehyde, N-Butyl aldehyde	Formula: C ₄ H ₈ O	CAS Number: 123-72-8
		EC-No: 204-646-6	UEL:12.5%Vol, LEL:1.9%Vol
		Mole wt: 72.11 g/mole	Vapor Pressure: 91.5 mmHg at 20°C
		Melting Point: -97°C	Relative liquid density: 0.805 (Water=1)
		Initial Boiling Point: 75°C	Relative vapor density: 2.5 (Air=1)
		Viscosity: 0.43 Pas at 20°C	Auto Ignition temp: 191°C
		Flash point: -16°C closed cup	Surface tension: 29.9 m N/m @ 24°C
		Soluble in Ethanol, Ether, Ethyl Acetate, Acetone, Toluene	

Specification:

	S.No	Property	Unit	Specification (Guaranteed)	Typical result	Test Method
Specification:	1	N-Butyraldehyde:	wt%	99.00 Min	99.20 to 99.40	CAPILLARY GC-HY210
	2	I-Butyraldehyde:	wt%	0.15 Max	0.05 to 0.12	CAPILLARY GC HY210
	3	Water:	wt%	0.10 Max	0.04 to 0.08	KARLFISCHER HY220
	4	Acidity (As Butyric Acid):	wt%	0.10 Max	0.01 to 0.06	HY30
	5	Colour:	APHA	10 Max	4 to 8	HY50

Applications:

N-butyraldehyde is used as a raw material in the production of alcohols (mono- and multi-hydroxide), acids, amines, and esters. It is used in the production processes of plasticizers, pharmaceuticals, plant protection products, synthetic resins, odorizing agents, solvents, and various types of additives used in many industries viz., fillers, wetting agents, defoaming agents, improvers, tanning auxiliaries, perfumes, Flavors, antioxidants, vulcanization accelerators, Paints & coatings, Glass treatment, Packaging components non-food contact, etc

Safety:

Advice to refer Material Safety Data Sheet for more information; Highly Inflammable; Firefighting measures: Water spray, Carbon dioxide, Dry Chemical Powder, or Appropriate foam; May undergo Auto polymerization; Avoid contact with skin and eyes and breathing vapours; Use non-sparking tools, ex-proof equipment; Normally stable but not to light. However, in long-term storage, materials containing similar functional groups form peroxides of unknown stability.

Storage :

N-Butyraldehyde can be stored in leak-tight tanks/containers in a neutral atmosphere e.g., under a nitrogen blanket and at temperatures below 35°C. Use non-sparking tools only and ex-proof equipment; Eliminate any ignition sources.

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