

	Technical Data Sheet	NORMAL BUTYRALDEHYDE
	07 08 2023, Rev-00	
	Page 1 of 1	

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	Value	Unit	Test Method
Specification:	1	N-Butyraldehyde:	99.00 Min	wt%	CAPILLARY GC-HY210
	2	I-Butyraldehyde:	0.25 Max	wt%	CAPILLARY HY210
	3	Water:	0.30 Max	wt%	KARLFISCHER HY220
	4	Free Acid (As Butyric Acid):	0.45 Max	wt%	HY30
	5	Colour:	10 Max	APHA	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.

The Andhra Petrochemicals Limited	Factory:	PB No. 1401, Opp. Naval Dockyard, Visakhapatnam-530014, Phone: +91-891-2891500
	Registered Office:	Venkatarayapuram, Tanuku – 534215, W.G.Dt. (AP), Phone: +91-8819-224075/168
	Marketing Office:	202-A, 2nd Floor, My Home Sarovar Plaza, Saifabad, Hyderabad-63; Phone: +91-40- 23420666/667