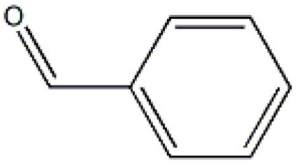
TECHNICAL DATA SHEET

VERSION 2.0 VERSION DATE 01/06/20 PRINT DATE 03/06/20

PRODUCT NAME	Benzaldehyde
CAS NO	100-52-7
MF	C_7H_6O
MW	106.12
EINECE	202-860-4
FEMA	2127
RTECS	CU4375000
HS CODE	29122100



SPECIFICATIONS

MELTING POINT	-26℃（lit.）
BOILING POINT	179℃（lit.）
DENSITY	1.044g/mL at 25℃(lit.)
REFRACTIVE INDEX	n20/D 1.545(lit.)
FLASH POINT	＞145℃
STORAGE TEMP	REFRIGERATOR(+4℃)
FORM	LIQUID
COLOR	CLEAR COLORLESS TO PALE YELLOW
WATER SOLUBILITY	H_2O:SOLUBLE 100mg/mL
ASSAY（%）	≥99%
JECFA NO	22
MERCK	14,1058
RISK STATEMENTS	22
SAFETY STATEMENGTS	24
WGK GERMANY	1
TOXICITY	LD50 IN RATS,GUINEA PIGS(mg/kg):1300,1000 ORALLY

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TECHNICAL DATA

The preparation method is to chlorinate toluene to obtain mixed Chlorobenzyl (including C6H5CH2Cl, c6h5chcl2, c6h5ccl3) under the light, put mixed Chlorobenzyl into the reaction kettle, add a small amount of zinc oxide and zinc phosphate mixture catalyst, drop water into the enamel kettle chemistbook at 125-135 ℃, the reaction starts immediately, and the water is added for about 10 hours, and the reaction is completed, and then add soda ash for neutralization at 65 ℃, The neutralization solution is hydrolyzed with soda ash in the hydrolysis pot, and the reflux is 8h. When the side chain chlorine content in the oil layer is less than 0.1%, the reaction is finished, and water vapor distillation is carried out. Benzaldehyde is evaporated with water, and the product is obtained by layering and distillation.

STABILITY AND STORAGE

Stable, Incompatible with strong oxidizing agents, acids, bases, reducing agents. Combustible. Keep in tightly closed container in a cool and dry place, protected from light. When stored for more than 12 months, quality should be checked before use.

PRODUCT APPLICATION

GB 2760-1996 is the temporarily permitted edible flavor. It is mainly used for making almond, cherry, peach, nuts and other flavors, the dosage can reach 40%. As the flavoring agent of canned cherry in syrup, add 3ml of syrup per kg.
Intermediate of medicine, dyestuff, perfume. It is used in the production of m-oxybenzaldehyde, lauric acid, lauraldehyde, magenta, benzyl benzoate, benzidine, Benzalacetone, etc. It is used to blend soap essence, food flavor, etc.

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