

3. CHEMICAL AND PHYSICAL INFORMATION

3.1 CHEMICAL IDENTITY

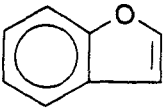
Table 3-1 lists common synonyms, trade names, and other pertinent identification information for 2,3-benzofuran.

3.2 PHYSICAL AND CHEMICAL PROPERTIES

Table 3-2 lists important physical and chemical properties of 2,3-benzofuran.

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TABLE 3-1. Chemical Identity of 2,3-Benzofuran

Characteristic	Information	Reference
Chemical name	2,3-Benzofuran	CLPSD 1990
Synonyms	Benzofuran; cumaron; coumarone; benzo(b)furan; benzofurfuran; 1-oxindene	Windholz et al. 1983 Sax 1984
Trade names	No data	
Chemical formula	C ₈ H ₆ O	Weast 1985
Chemical structure		Windholz et al. 1983
Identification numbers:		
CAS registry	271-89-6	Sax 1984
NIOSH RTECS	DF6423800	Sax 1984
EPA hazardous waste	No data	
OHM/TADS	No data	
DOT/UN/NA/IMCO shipping	No data	
HSDB	4173	NLM 1989
NCI	C56166	NLM 1989

CAS = Chemical Abstracts Service; DOT/UN/NA/IMCO = Department of Transportation/United Nations/North America/International Maritime Dangerous Goods Code; EPA = Environmental Protection Agency; HSDB = Hazardous Substances Data Bank; NCI = National Cancer Institute; NIOSH = National Institute for Occupational Safety and Health; OHM/TADS = Oil and Hazardous Materials/Technical Assistance Data System; RTECS = Registry of Toxic Effects of Chemical Substances

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TABLE 3-2. Physical and Chemical Properties of 2,3-Benzofuran

Property	Information	Reference
Molecular weight	118.14	Weast 1985
Color	Colorless	Sax and Lewis 1987
Physical state	Liquid	Sax and Lewis 1987
Melting point	-18°C	Weast 1985
Boiling point	175°C	Weast 1985
Density at 20°C	1.0948	Powers 1980
Odor	Aromatic	Windholz et al. 1983
Odor threshold:		
Water	No data	
Air	No data	
Solubility:		
Water at 20°C	Insoluble	Windholz et al. 1983
Organic solvents	Miscible with benzene, petroleum ether, absolute alcohol and ether	
Partition coefficients:		
Log octanol/water	2.67	Leo et al. 1971
Log K_{oc}	No data	
Vapor pressure at 20°C	No data	
Henry's law constant:		
at 20°C	No data	
Autoignition temperature	No data	
Flashpoint	No data	
Flammability limits	No data	
Conversion factors	1 ppm = 4.83 mg/m ³ (calculated) 1 mg/m ³ = 0.21 ppm (calculated)	
Explosive limits	No data	

