3. CHEMICAL AND PHYSICAL INFORMATION

3.1 CHEMICAL IDENTITY

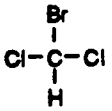
Table 3-l lists common synonyms, trade names and other pertinent identification information for BDCM.

3.2 PHYSICAL AND CHEMICAL PROPERTIES

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

3. CHEMICAL AND PHYSICAL INFORMATION

TABLE 3-1. Chemical Identity of BDCM

	Value	References
Chemical Name	Bromodichloromethane	NLM 1988
Synonyms	Dichlorobromomethane; Monobromodichloromethane; Methane, bromodichloro-	NLM 1988
Trade Name (s)	--[a]	
Chemical Formula	$CHBrCl_2$	Verschueren 1977
Chemical Structure		EPA 1983
Identification Numbers:		
CAS Registry	75-27-4	NLM 1988
NIOSH RTECS	PA5310000	HSDB 1988
EPA Hazardous Waste	ND	HSDB 1988
OHM-TADS	ND	HSDB 1988
DOT/UN/NA/IMCO Shipping	ND	HSDB 1988
HSDB	4160	NLM 1988
NCI	C55243	NLM 1988

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

[a]No data located

3. CHEMICAL AND PHYSICAL INFORMATION

TABLE 3-2. Physical and Chemical Properties of BDCM

Property	Value	References
Molecular weight	163.83	Weast 1985
Color	colorless	Verschueren 1977
Physical State	liquid	Verschueren 1977
Melting point, °C	-57.1	Weast 1985
Boiling point, °C	90	Weast 1985
Density, 20/4	1.980	Weast 1985
Odor	ND[a]	
Odor threshold Water Air	ND	
Solubility Water, mg/L	4,500	Mabey et al. 1982
Organic Solvents	soluble	Weast 1985
Partition coefficients Log octanol/water	2.1	Mabey et al. 1982
Log k_{oc}	1.8	Mabey et al. 1982
Vapor Pressure, mm Hg (20°C)	50	Mabey et al. 1982
Henry's Law Constant, atm m^3/mol	2.41E-03	Mabey et al. 1982
Autoignition temperature, °C	ND	
Flash point	ND	
Flammability limits	ND	
Conversion Factors ppm (v/v) to mg/m^3 in air (20 °C)	1 ppm = 6.70 mg/m^3	Verschueren 1977
mg/m^3 to ppm (v/v) in air (20 °C)	1 mg/m^3 = 0.15 ppm	

[a] No data located.