

Butyl isobutyrate c8h16o2 structure



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\n[[toc title="Table of Contents"](#)]\n

\n \t

1. [Experimental Melting Point:](#) \n \t
2. [Experimental Boiling Point:](#) \n \t
3. [Experimental Flash Point:](#) \n \t
4. [Experimental Refraction Index:](#) \n \t
5. [Retention Index \(Kovats\):](#) \n \t
6. [Retention Index \(Normal Alkane\):](#) \n \t
7. [Retention Index \(Linear\):](#) \n

\n[/toc]\n \n

Contents

- Retention Index (Linear):

Molecular Formula	C ₈ H ₁₆ O ₂
Average mass	144. 211 Da
Density	0. 9±0. 1 g/cm ³
Boiling Point	156. 3±8. 0 °C at 760 mmHg
Flash Point	46. 7±8. 3 °C

Molar
Refractivity $40.8 \pm 0.3 \text{ cm}^3$

Polarizability $16.2 \pm 0.5 \cdot 10^{-24} \text{ cm}^3$

Surface Tension $26.3 \pm 3.0 \text{ dyne/cm}$

Molar Volume $164.4 \pm 3.0 \text{ cm}^3$

- Experimental data
- Predicted - ACD/Labs
- Predicted - EPISuite
- Predicted - ChemAxon
- Predicted - Mcule
- Experimental Physico-chemical Properties

- **Experimental Melting Point:**

<25

°CFooDBFDB019968

- **Experimental Boiling Point:**

155-156 °C

(Literature)LabNetworkLN00196136

155 °CFooDBFDB019968

- **Experimental Flash Point:**

43

°CLabNetworkLN0019613

6

- **Experimental Refraction Index:**

20FooDBFDB0199

68

- Gas Chromatography

- **Retention Index (Kovats):**

920 (estimated with error: 47)NIST Spectramainlib_4078, replib_285039, replib_228837, replib_249302

935 (Program type: Ramp; Column cl... (show more)ass: Standard non-po

Column diameter: 0. 32 mm; Column length: 60 m; Column type: Capilla

rate: 2 K/min; Start T: 30 C; End T: 210 C; Start time: 4 min; CAS no: 978

Active phase: DB-1; Carrier gas: He; Phase thickness: 0. 25 um; Data typ

Kovats RI; Authors: Takeoka, G. R.; Flath, R. A.; Mon, T. R.; Teranishi, R.;

Guentert, M., Volatile Constituents of Apricot (*Prunus armeniaca*), *J. Agric*

Chem., 38(2), 1990, 471-477.)NIST Spectranist ri

936 (Program type: Isothermal; Column class: Standard non-polar; Column diameter: 0.32 mm; Column length: 3 m; Column type: Packed; Start T: 100 C; CAS no: 97870; Active phase: SE-30; Carrier gas: N2; Substrate: Chromosorb W AW (60-80 mesh); Data type: Kovats RI; Authors: Chastrette, M.; Heintz, M.; Druilhe, A.; Lefort, D.)
Analyse chromatographique d'esters aliphatiques satures. Relations retenir et prevision de la retention, Bull. Soc. Chim. Fr., , 1974, 1852-1857.)
Program type: Ramp; Column class: Standard non-polar; Column diameter: 0.32 mm; Column length: 60 m; Column type: Capillary; Heat rate: 2 K/min; Start T: 30 C; End T: 210 C; Start time: 4 min; CAS no: 97870; Active phase: DB-1; Carrier gas: He; Phase thickness: 0.25 um; Data type: Kovats RI; Authors: Takeoka, G. R.; Flath, R. A.; Mon, T. R.; Teranishi, R.; Guentert, M.)
Volatile Constituents of Apricot (*Prunus armeniaca*), J. Agric. Food Chem., 38(2), 1990, 471-477.)
NIST Spectranist ri

943 (Program type: Ramp; Column class: Standard non-polar; Column diameter: 0.32 mm; Column length: 60 m; Column type: Capillary; Heat rate: 2 K/min; Start T: 30 C; End T: 210 C; Start time: 4 min; CAS no: 97870; Active phase: DB-1; Carrier gas: He; Phase thickness: 0.25 um; Data type: Kovats RI; Authors: Takeoka, G. R.; Flath, R. A.; Mon, T. R.; Teranishi, R.; Guentert, M.)
Volatile Constituents of Apricot (*Prunus armeniaca*), J. Agric. Food Chem., 38(2), 1990, 471-477.)
NIST Spectranist ri

944 (Program type: Ramp; Column class: Standard non-polar; Column diameter: 0.32 mm; Column length: 60 m; Column type: Capillary; Heat rate: 2 K/min; Start T: 30 C; End T: 210 C; Start time: 4 min; CAS no: 97870; Active phase: DB-1; Carrier gas: He; Phase thickness: 0.25 um; Data type: Kovats RI; Authors: Takeoka, G. R.; Flath, R. A.; Mon, T. R.; Teranishi, R.; Guentert, M.)
Volatile Constituents of Apricot (*Prunus armeniaca*), J. Agric. Food Chem., 38(2), 1990, 471-477.)
NIST Spectranist ri

Kovats RI; Authors: Takeoka, G. R.; Flath, R. A.; Mon, T. R.; Teranishi, R.; Guentert, M., Volatile Constituents of Apricot (*Prunus armeniaca*), *J. Agric. Chem.*, 38(2), 1990, 471-477.)NIST Spectranist ri

937 (Program type: Isothermal; Col... (show more)umn class: Standard n
Column diameter: 0.22 mm; Column length: 15 m; Column type: Capilla
T: 80 C; CAS no: 97870; Active phase: OV-101; Data type: Kovats RI; Aut
Komarek, K.; Hornova, L.; Horna, A.; Churacek, J., Glass capillary gas
chromatography of homologous series of esters. IV. Separation of homolo
series of certain halogenopropyl esters of aliphatic carboxylic acids on O
Chromatogr., 281, 1983, 299-303.)NIST Spectranist ri

931 (Program type: Isothermal; Col... (show more)umn class: Standard n
Column length: 12 ft; Column type: Packed; Start T: 150 C; CAS no: 9787
phase: SE-30; Substrate: Celaton (62-72 mesh); Data type: Kovats RI; Au
Ashes, J. R.; Haken, J. K., Gas chromatography of homologous esters. VI.
Structure-retention increments of aliphatic esters, *J. Chromatogr.*, 101, 1
103-123., Program type: Isothermal; Col... (show more)umn class: Stand
polar; Column length: 12 ft; Column type: Packed; Start T: 150 C; CAS no
Active phase: SE-30; Substrate: Chromosorb W AW DMCS; Data type: Kov
Authors: Haken, J. K.; Srisukh, D., Gas chromatography of homologous es
Molecular retention indices of aliphatic esters, *J. Chromatogr.*, 219, 1981
Program type: Isothermal; Col... (show more)umn class: Standard non-po
Column type: Capillary; CAS no: 97870; Active phase: SE-30; Data type:
RI; Authors: Chretien, J. R.; Dubois, J-E., Topological Analysis: A Techniqu
Physico-Chemical Exploitation of Retention Data in Gas-Liquid Chromatog

Chromatogr., 158, 1978, 43-56.)NIST Spectranist ri

933 (Program type: Isothermal; Col... (show more)umn class: Standard n

Column length: 12 ft; Column type: Packed; Start T: 150 C; CAS no: 9787

phase: SE-30; Substrate: Celite 560; Data type: Kovats RI; Authors: Germ

W.; Haken, J. K., Gas chromatography of homologous esters. Part 1. Simp

aliphatic esters, J. Chromatogr., 43, 1969, 33-42., Program type: Isotherm

Col... (show more)umn class: Standard non-polar; Column type: Packed;

150 C; CAS no: 97870; Active phase: OV-1; Data type: Kovats RI; Authors

J. R.; Haken, J. K., Gas chromatography of homologous esters. Part V. Ret

aliphatic esters on non-polar, donar and acceptor stationary phases, J.

Chromatogr., 60, 1971, 33-44.)NIST Spectranist ri

952 (Program type: Isothermal; Col... (show more)umn class: Standard n

Column length: 2 m; Column type: Packed; Start T: 100 C; CAS no: 97870

phase: SE-30; Substrate: Chromosorb W; Data type: Kovats RI; Authors: Z

D.; Chovin, P.; Guiochon, G., Identification of hydroxylic compounds and

derivatives by gas chromatography, Chromatographia, 3, 1970, 180-195

Spectranist ri

894 (Program type: Isothermal; Col... (show more)umn class: Semi-stand

polar; Column length: 2. 25 m; Column type: Packed; Start T: 130 C; CAS

97870; Active phase: Apiezon L; Substrate: Celite; Data type: Kovats RI; A

Wehrli, A.; Kovats, E., Gas-chromatographische Charakterisierung ograni

Verbindungen. Teil 3: Berechnung der Retentionsindices aliphatischer,

alicyclischer und aromatischer Verbindungen, Helv. Chim. Acta, 7, 1959,

2736., Program type: Isothermal; Col... (show more)umn class: Semi-star

non-polar; Column type: Packed; Start T: 130 C; CAS no: 97870; Active phase: Apiezon L; Data type: Kovats RI; Authors: Bogoslovsky, Yu. N.; Anvaer, B. I.; Vigdergauz, M. S., Chromatographic constants in gas chromatography (in Russian), Standards Publ. House, Moscow, 1978, 192.)NIST Spectranist ri

895 (Program type: Isothermal; Column class: Semi-standard; Column type: Packed; Start T: 120 C; CAS no: 97870; Active phase: Apiezon L; Substrate: Celite 545; Data type: Kovats RI; Authors: Bogoslovsky, Yu. N.; Anvaer, B. I.; Vigdergauz, M. S., Chromatographic constants in gas chromatography (in Russian), Standards Publ. House, Moscow, 1978, 192.)NIST Spectranist ri

908 (Program type: Isothermal; Column class: Semi-standard; Column type: Packed; Start T: 160 C; CAS no: 97870; Active phase: Apiezon L; Substrate: Celite 545; Data type: Kovats RI; Authors: Bogoslovsky, Yu. N.; Anvaer, B. I.; Vigdergauz, M. S., Chromatographic constants in gas chromatography (in Russian), Standards Publ. House, Moscow, 1978, 192.)NIST Spectranist ri

891 (Program type: Isothermal; Column class: Semi-standard; Column type: Packed; Start T: 70 C; CAS no: 97870; Active phase: Squalane; Substrate: Chromosorb G; Data type: Kovats RI; Authors: Miramand, J.; Sanchez, L. G., Polarity of the Gas Chromatographic Stationary Phases and Retention Indices of Aliphatic Esters, Ketones and Alcohols, Anal. Chim. Acta 1970, 315-321.)NIST Spectranist ri

898 (Program type: Isothermal; Column class: Semi-standard; Column type: Packed; Start T: 120 C; CAS no: 97870; Active phase: Apiezon L; Substrate: Celite 545; Data type: Kovats RI; Authors: Bogoslovsky, Yu. N.; Anvaer, B. I.; Vigdergauz, M. S., Chromatographic constants in gas chromatography (in Russian), Standards Publ. House, Moscow, 1978, 192.)NIST Spectranist ri

polar; Column length: 2. 25 m; Column type: Packed; Start T: 190 C; CAS no: 97870; Active phase: Apiezon L; Substrate: Celite; Data type: Kovats RI; Authors: Wehrli, A.; Kovats, E., Gas-chromatographische Charakterisierung ograni... Verbindungen. Teil 3: Berechnung der Retentionsindices aliphatischer, alicyclischer und aromatischer Verbindungen, Helv. Chim. Acta, 7, 1959, 2736.)NIST Spectranist ri

1149 (Program type: Ramp; Column cl... (show more)ass: Standard polar; Column diameter: 0. 25 mm; Column length: 30 m; Column type: Capilla... rate: 2 K/min; Start T: 60 C; End T: 200 C; Start time: 10 min; CAS no: 97... Active phase: DB-Wax; Carrier gas: N2; Data type: Kovats RI; Authors: Ur... Shoji, A.; Hagi, Y.; Shibamoto, T., Volatile constituents of peel of quince fr... Cydonia oblonga Miller, J. Agric. Food Chem., 34(4), 1986, 593-596.)NIST Spectranist ri

1145 (Program type: Isothermal; Col... (show more)umn class: Standard; Column length: 3 m; Column type: Packed; Start T: 100 C; CAS no: 97870; Active phase: Carbowax 20M; Substrate: Chromosorb WAW (60-80 mesh); Data type: Kovats RI; Authors: Chastrette, M.; Heintz, M.; Druilhe, A.; Lefort, D., Ana... chromatographique d'esters aliphatiques satures. Relations retention-str... et prevision de la retention, Bull. Soc. Chim. Fr., , 1974, 1852-1856.)NIST Spectranist ri

1197 (Program type: Isothermal; Col... (show more)umn class: Standard; Column length: 2 m; Column type: Packed; Start T: 100 C; CAS no: 97870; Active phase: Carbowax 20M; Substrate: Chromosorb W; Data type: Kovats RI; Authors: Zarazir, D.; Chovin, P.; Guiochon, G., Identification of hydroxylic compou...

their derivatives by gas chromatography, *Chromatographia*, 3, 1970, 180-195.)NIST Spectranist ri

- **Retention Index (Normal Alkane):**

934 (Program type: Ramp; Column cl... (show more)ass: Standard non-polar; Column diameter: 0.25 mm; Column length: 30 m; Column type: Capillary; Flow rate: 5 K/min; Start T: 30 C; End T: 210 C; CAS no: 97870; Active phase: SE-30; Carrier gas: He; Phase thickness: 0.25 um; Data type: Normal alkane RI; Authors: Kumazawa, K.; Itobe, T.; Nishimura, O.; Hamaguchi, T., A new approach to estimate the in-mouth release characteristics of odorants in chewing gum, *Food Science and Technology Research*, 14(3), 2008, 269-276.)NIST Spectranist ri

931 (Program type: Ramp; Column cl... (show more)ass: Standard non-polar; Column type: Capillary; CAS no: 97870; Active phase: SE-30; Data type: Normal alkane RI; Authors: Liu, F.; Liang, Y.; Cao, C.; Zhou, N., QSPR study of GC retention indices for saturated esters on seven stationary phases based on topological indices, *Talanta*, 72, 2007, 1307-1315.)NIST Spectranist ri

939 (Program type: Ramp; Column cl... (show more)ass: Standard non-polar; Column diameter: 0.28 mm; Column length: 50 m; Column type: Capillary; Flow rate: 2 K/min; Start T: 80 C; End T: 200 C; CAS no: 97870; Active phase: SE-30; Data type: Normal alkane RI; Authors: Anker, L. S.; Jurs, P. C.; Edwards, P., Quantitative structure-retention relationship studies of odor-active aliphatic compounds with oxygen-containing functional groups, *Anal. Chem.*, 62, 1990, 2676-2684., Program type: Ramp; Column cl... (show more)ass: Standard non-polar; Column type: Capillary; CAS no: 97870; Active phase: SE-30; Data type: Normal alkane RI; Authors: Vinogradov, B. A., Production, composition, p

and application of essential oils, 2004.)NIST Spectranist ri

945 (Program type: Ramp; Column cl... (show more)ass: Standard non-polar
Column type: Capillary; Heat rate: 2 K/min; Start T: 70 C; End T: 170 C; CAS
97870; Active phase: SE-30; Carrier gas: Helium; Data type: Normal alkane RI
Authors: Alves, S.; Jennings, W. G., Volatile composition of certain Amazonian
fruits, Food Chem., 4(2), 1979, 149-159.)NIST Spectranist ri

944 (Program type: Isothermal; Col... (show more)umn class: Standard non-polar
Column type: Packed; Start T: 70 C; CAS no: 97870; Active phase: SE-30;
type: Normal alkane RI; Authors: Yabumoto, K.; Jennings, W. G.; Yamaguchi, S.
Gas chromatographic retention as identification criteria, Anal. Biochem.,
1977, 244-251.)NIST Spectranist ri

911 (Program type: Ramp; Column cl... (show more)ass: Semi-standard non-polar
polar; Column diameter: 0. 25 mm; Column length: 30 m; Column type: Capillary
Heat rate: 4 K/min; Start T: 50 C; End T: 230 C; End time: 10 min; Start time:
min; CAS no: 97870; Active phase: HP-5 MS; Carrier gas: Helium; Phase
thickness: 0. 25 um; Data type: Normal alkane RI; Authors: Forero, M. D.;
Quijano, C. E.; Pino, J. A., Volatile compounds of Chile pepper (*Capsicum*
L. var. glabriusculum) at two ripening stages, Flavour Fragr. J., 24, 2008,
30.)NIST Spectranist ri

1129 (Program type: Complex; Column... (show more)class: Standard polar
Column diameter: 0. 20 mm; Column length: 50 m; Column type: Capillary
Description: 70 0C (1 min) ^ 3 0C/min -> 142 0C ^ 5 0C/min -> 225 0C (1 min)
CAS no: 97870; Active phase: FFAP; Carrier gas: Helium; Phase thickness:

um; Data type: Normal alkane RI; Authors: Ortiz, A.; Echeverra, G.; Graell, I.; Lara, I., Calcium dips enhance volatile emission of cold-stored "Fuji Kiki" apples, *J. Agric. Food Chem.*, 57(11), 2009, 4931-4938.)NIST Spectranist

1149 (Program type: Ramp; Column cl... (show more)ass: Standard polar
Column diameter: 0.25 mm; Column length: 30 m; Column type: Capillary
rate: 5 K/min; Start T: 30 C; End T: 210 C; CAS no: 97870; Active phase: L
Carrier gas: He; Phase thickness: 0.25 um; Data type: Normal alkane RI;
Kumazawa, K.; Itobe, T.; Nishimura, O.; Hamaguchi, T., A new approach to
estimate the in-mouth release characteristics of odorants in chewing gum
Science and Technology Research, 14(3), 2008, 269-276.)NIST Spectranist

1139 (Program type: Ramp; Column cl... (show more)ass: Standard polar
Column diameter: 0.2 mm; Column length: 80 m; Column type: Capillary
rate: 2 K/min; Start T: 70 C; End T: 170 C; CAS no: 97870; Active phase:
Carbowax 20M; Data type: Normal alkane RI; Authors: Anker, L. S.; Jurs, L.
Edwards, P. A., Quantitative structure-retention relationship studies of oc
active aliphatic compounds with oxygen-containing functional groups, *Ar
Chem.*, 62, 1990, 2676-2684., Program type: Ramp; Column cl... (show n
Standard polar; Column type: Capillary; CAS no: 97870; Active phase: Ca
20M; Data type: Normal alkane RI; Authors: Vinogradov, B. A., Production
composition, properties and application of essential oils, 2004.)NIST Spe
ri

1159 (Program type: Ramp; Column cl... (show more)ass: Standard polar
Column diameter: 0.25 mm; Column length: 60 m; Column type: Capilla
rate: 4 K/min; Start T: 60 C; End T: 220 C; End time: 10 min; Start time: 1

CAS no: 97870; Active phase: Innowax; Carrier gas: He; Data type: Normal alkane RI; Authors: Suleimenov, E. M.; Atazharova, G. A.; Demirchi, B.; Baser, K. A.; Adekenov, S. M., Essential oil composition of Artemisia Lercheana and A. Sieversiana of Kazakhstan flora, in Recent problems of development of natural medicines of natural origin, Proceedings of symposium, St. Petersburg - 2003, 382-385.)NIST Spectranist ri

1147 (Program type: Isothermal; Column class: Standard non-polar; Column type: Packed; Start T: 100 C; CAS no: 97870; Active phase: Carbowax 20M; Data type: Normal alkane RI; Authors: Yabumoto, K.; Jennings, W. G.; Yamaguchi, M., Gas chromatographic retention as identification criteria, J. Biochem., 78, 1977, 244-251.)NIST Spectranist ri

- **Retention Index (Linear):**

952 (Program type: Complex; Column class: Standard non-polar; Column diameter: 0.25 mm; Column length: 60 m; Column type: Capillary; Description: -20C (5min) => 10C/min => 100C => 4C/min => 200C => 280C; CAS no: 97870; Active phase: DB-1; Carrier gas: He; Phase thickness: 0.25 um; Data type: Linear RI; Authors: Eri, S.; Khoo, B. K.; Lech, J.; Hartmann, G., Direct thermal desorption-gas chromatography and gas chromatography-mass spectrometry profiling of hop (*Humulus lupulus* L.) essential oils in relation to varietal characterization, J. Agric. Food Chem., 48, 2000, 1140-1149.)NIST Spectranist ri

954 (Program type: Ramp; Column class: Semi-standard non-polar; Column diameter: 0.25 mm; Column length: 30 m; Column type: Capillary; Heat rate: 20 K/min; Start T: 50 C; End T: 220 C; End time: 2 min; Start time: 0 min)

min; CAS no: 97870; Active phase: SPB-5; Carrier gas: He; Phase thickne
um; Data type: Linear RI; Authors: Balbontin, C.; Gaete-Eastman, C.; Ver
Herrera, R.; Moya-Leon, M. A., Treatment with 1-MCP and the role of ethy
aroma development of mountain papaya fruit, Postharvest Biol. Technol.
2007, 67-77.)NIST Spectranist ri

955 (Program type: Ramp; Column cl... (show more)ass: Semi-standard n
polar; Column diameter: 0. 25 mm; Column length: 30 m; Column type: C
Heat rate: 4 K/min; Start T: 60 C; End T: 250 C; End time: 20 min; Start ti
min; CAS no: 97870; Active phase: HP-5MS; Carrier gas: He; Phase thickn
25 um; Data type: Linear RI; Authors: Pino, J. A.; Mesa, J.; Munoz, Y.; Mart
Marbot, R., Volatile components from mango (*Mangifera indica* L.) cultivar
Agric. Food Chem., 53, 2005, 2213-2223.)NIST Spectranist ri

1154 (Program type: Complex; Column... (show more)class: Standard po
Column diameter: 0. 25 mm; Column length: 30 m; Column type: Capilla
Description: 35C(8min) => 4C/min => 60C => 6C/min => 160C=> 20C
200C(1min); CAS no: 97870; Active phase: Supelcowax-10; Carrier gas: H
Phase thickness: 0. 25 um; Data type: Linear RI; Authors: Bianchi, F.; Car
Mangia, A.; Musci, M., Retention indices in the analysis of food aroma vol
compounds in temperature-programmed gas chromatography: Database
creation and evaluation of precision and robustness, J. Sep. Sci., 39, 200
572.)NIST Spectranist ri

Predicted data is generated using the ACD/Labs Percepta Platform -
PhysChem Module

Density:	0.9±0.1 g/cm ³
Boiling Point:	156.3±8.0 °C at 760 mmHg
Vapour Pressure:	2.9±0.3 mmHg at 25°C
Enthalpy of Vaporization:	39.3±3.0 kJ/mol
Flash Point:	46.7±8.3 °C
Index of Refraction:	1.411
Molar Refractivity:	40.8±0.3 cm ³
#H bond acceptors:	2
#H bond donors:	0
#Freely Rotating Bonds:	5
#Rule of 5 Violations:	0
ACD/LogP:	2.65
ACD/LogD (pH 5.5):	2.42
ACD/BCF (pH 5.5):	40.51
ACD/KOC (pH 5.5):	492.37
ACD/LogD (pH 7.4):	2.42

ACD/BCF (pH 7. 4):	40. 51
ACD/KOC (pH 7. 4):	492. 37
Polar Surface Area:	26 Å ²
Polarizability:	16. 2±0. 5 10 ⁻²⁴ cm ³
Surface Tension:	26. 3±3. 0 dyne/cm
Molar Volume:	164. 4±3. 0 cm ³

Predicted data is generated using the US Environmental Protection Agency's
EPISuite™

Log Octanol-Water Partition Coef (SRC): Log Kow (KOWWIN v1. 67 estimate) = 2. 76
Boiling Pt, Melting Pt, Vapor Pressure Estimations (MPBPWIN v1. 42):
Boiling Pt (deg C): 157. 09 (Adapted Stein & Brown method) Melting Pt (deg C):
-43. 92 (Mean or Weighted MP) VP (mm Hg, 25 deg C): 3. 18 (Mean VP of Antoine &
Grain methods) MP (exp database): 8 at 25 deg C : 3. 709E-002 L/mol-sec Kb
Half-Life at pH 8: 216. 263 days Kb Half-Life at pH 7: 5. 921 years
Bioaccumulation Estimates from Log Kow (BCFWIN v2. 17): Log BCF from
regression-based method = 1. 421 (BCF = 26. 39) log Kow used: 2. 76
(estimated) Volatilization from Water: Henry LC: 0. 000974 atm-m³/mole
(estimated by Group SAR Method) Half-Life from Model River: 1. 947 hours
Half-Life from Model Lake : 121. 9 hours (5. 081 days) Removal In Wastewater
Treatment: Total removal: 31. 55 percent Total biodegradation: 0. 09
percent Total sludge adsorption: 3. 28 percent Total to Air: 28. 18
percent (using 10000 hr Bio P, A, S) Level III Fugacity Model: Mass Amount
Half-Life Emissions (percent) (hr) (kg/hr) Air 9. 92 46. 7 1000 Water 25 208
1000 Soil 64. 9 416 1000 Sediment 0. 216 1. 87e+003 0 Persistence Time: 216
hr

Click to predict properties on the Chemicalize site

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- 1-Click Scaffold Hop