Chemtura

Fluorine Specialty Chemicals

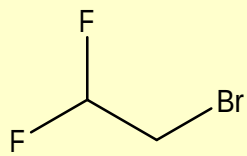
Technical Information

Bromodifluoroethane (BDFE)

Agro/Pharma Intermediate

BDFE is a selectively fluorinated bromoethane that is used to provide a CF2 end to the final product. The bromine creates a useful handle for the synthesis of pharmaceutical and agricultural substances.

Chemical Name: (2-bromo-1,1-difluoroethane)
CAS Reg. Number: [359-07-9]



Typical Properties	
Appearance	Clear Liquid
Molecular Weight	144.95
Density @ 20 °C g/cm^3	1.72
Boiling Point °C	57
Moisture, PPM	100 max.
Vapor Pressure	
20 °C	3 psia
100 °C	52 psia

This product is packaged in 2150 kg stainless steel totes.

Fluorinated intermediates, such as BDFE, can be used to enhance the biological properties of a wide range of compounds by making it easy to add the properties of the C-F bond to a variety of biologically active molecules. Physical, chemical, and biological properties including surface energies, reactivity, polarity, and thermal stability can be greatly altered by the substitution of one or more fluorine atoms. Introduction of fluorine into a bioactive pharmaceutical or agricultural compound may improve lipophilicity, reduce toxicity, and increase efficacy.

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials.

This product has approval according to U.S. regulatory agencies only for its production and use as an industrial intermediate for production of herbicides. For additional handling and toxicological information, please consult the company's Material Safety Data Sheet or the regulatory department of Great Lake Chemical Corporation

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Great Lakes Chemical Corporation
A Chemtura Company
One Great Lakes Boulevard • West Lafayette, IN 47906 • Telephone 765-497-6100
http://www.chemtura.com