

# 全氟溴辛烷 Perflubron

## 1、产品介绍 Product introduction

全氟溴辛烷 ( $C_8BrF_{17}$ )，又名1-溴全氟辛烷、1-溴十七氟辛烷，熔点为 $6^{\circ}C$ ，沸点为 $142^{\circ}C$ ，为无色透明液体。全氟溴辛烷具有高密度、低粘度、低表面张力、不燃、无毒、高化学稳定性、高电绝缘性等特性。全氟溴辛烷是目前医用全氟碳化合物中较优越的一种，由于分子中一个溴原子的存在，使其具有很高的亲油性。它很容易用生物配伍性优越的卵磷脂类乳剂来乳化，而且显示出卓越的快速排泄特性。

Perflubron ( $C_8BrF_{17}$ ) is a kind of colorless transparent liquid at normal temperature with melting point of  $6^{\circ}C$ , boiling point of  $142^{\circ}C$ . Perflubron is characterized by high density, low viscosity, low surface tension, noncombustible, nontoxic, high chemical stability and high electrical insulation. Perflubron is one of the superior perfluorocarbons for medicine at present. Due to the presence of a bromine atom in the molecule, it has a high lipophilicity. It is easy to be emulsified with the biological compatible lecithin emulsion, which makes it excreted rapidly.

## 2、产品指标 Quality specification

序号	项目	指 标	
		I 级品	II 级品
1	1-溴全氟辛烷 $\geq$ , %	99.8	98.0
2	单个杂质 $<$ , %	0.05	2
3	酸度 ( $20^{\circ}C$ , pH)	6~7	6~7
4	折光率 $n_D$ ( $25^{\circ}C$ )	1.303-1.305	1.303-1.305
5	比重 $d_4^{25}$	1.92~1.94	1.92~1.94

### **3、产品用途 Application**

目前全氟溴辛烷已经用于组织携氧、造影、肿瘤的放射灵敏检测以及治疗细胞毒素的方面，造影剂以及携氧剂的特性使得全氟溴辛烷成为在疾病诊断和治疗中最具有潜力的全氟碳化合物，同时也存在着巨大的市场价值。

At present, perflubron has been used in tissue oxygen-carrying, angiography, radiosensitive detection of tumors and treatment of cytotoxins. The characteristics of contrast medium and oxygen-vector make perflubron become the most potential perfluorocarbons in the diagnosis and treatment of diseases, and it has great market value at the same time.

### **4、包装、贮藏 Packaging and storage**

全氟溴辛烷包装规格如下：500g 塑料瓶包装，5kg 塑料桶包装，25kg、50kg 钢塑桶包装。具体包装规格可根据用户要求定制更改。全氟溴辛烷储存于阴凉、通风的库房，远离火种、热源，应与氧化剂、食用化学品、碱金属分开存放。

Packing specifications of perflubron include plastic bottle of 500g, plastic cask of 5kg, steel-plastic cask of 25, 50kg. Specific packaging specifications can be customized according to user requirements. Perflubron is stored in a shady and ventilated storeroom away from fire and heat source. It should be separately stored with edible chemicals and alkali metal.