

全氟萘烷 Perfluorodecalin

1、产品介绍 Product introduction

全氟萘烷(C₁₀F₁₈), 也被称为十八氟十氢萘或全氟(十氢化萘), 熔点为-10℃, 沸点为 140℃, 是全氟化碳液的一种, 为无色透明液体。全氟萘烷与其他全氟化合物组成的胶体超微乳剂, 作为人造血液具有良好的携氧能力, 在一定浓度和氧分压条件下, 其氧溶解度为水的 20 倍, 比血液高 2 倍。

Perfluorodecalin (C₁₀F₁₈), also known as the perfluorinated (decalin), its melting point is -10°C, boiling point is 140°C, it is one of the perfluorocarbon liquids, colorless and transparent. The ultrafine emulsion comprised by perfluorodecalin and other perfluorinated compounds, as artificial blood, has good oxygen carrying capacity, its oxygen solubility is 20 times of water, 2 times higher than blood.

2、产品指标 Quality specification

项 目	指 标
全氟萘烷含量	≥95%
全氟丁基环己烷含量	≤5%
酸度 (20℃)	6~7
含氢杂质	无显著含氢杂质
折光率 (20℃)	1.3145
比重 d ₄ ²⁵	1.940~1.942

3、产品用途 Application

全氟萘烷可作为血液代用品应用, 也常被用于视网膜玻璃体手术中; 因其具有溶解和传输氧气给皮肤的功能可作为皮肤调理剂用在化妆品和个人护理品中。

Perfluorodecalin can be used as a blood substitute and is often used in vitreoretinal surgery. It is used as a skin conditioner in cosmetics and personal care products because of its ability to dissolve and deliver oxygen to the skin.

4、包装、贮藏 Packaging and storage

全氟萘烷包装在密封的棕色试剂瓶中，避免其接触氧化物，并放置阴凉，干燥的地方通风保存。包装规格一般为 5g、25g、100g、500g 等，也可根据用户需求进行包装。

Perfluorodecalin is packaged in a sealed brown reagent bottle and stored in a cool, dry, ventilated place, it should stay away from fire. The packaging specifications are generally 5g, 25g, 100g, 500g, etc., the packaging specifications can be customized according to customers' requirements.