

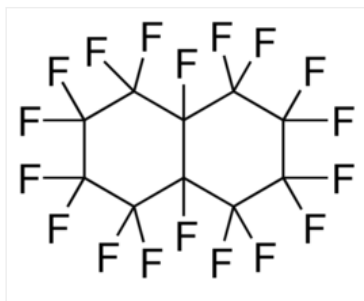
P9900 Sigma-Aldrich

Perfluorodecalin

95%

Synonym: Octadecafluorodecahydronaphthalene (*cis+trans*), Perflunafene, Perfluorodecahydronaphthalene (*cis+trans*)CAS Number 306-94-5 | Empirical Formula (Hill Notation) C₁₀F₁₈ | Molecular Weight 462.08 | Beilstein/REAXYS Number 2067113 | EC Number 206-192-4

MDL number MFCD00010626 | PubChem Substance ID 24898930


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P9900-25G	Available to ship on 10/23/19 - FROM 25 G	51.60	0	★ i

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Product Recommendations

77264
Octadecafluorodecahydronaphthalene
(*cis+trans*), ≥94% (GC)

56919
Perfluoroperhydrophenanthrene
Selectophore™

372439
Perfluoro(methyldecalin), mixture of iso...
technical grade, 80%

359238
Perfluorooctane
98%

302937
Perfluoro(methylcyclohexane)
technical grade, 90%

Properties

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vapor density	17.5 (vs air)
InChI Key	UWEYRJFJVCLAGH-UHFFFAOYSA-N
assay	95%
refractive index	<i>n</i> _{20/D} 1.3145 (lit.)
bp	142 °C (lit.)
mp	-10 °C (lit.)
density	1.908 g/mL at 25 °C (lit.)

Description

Application

Perfluorodecalin is a fluoruous solvent generally used as a primary component of the fluoruous biphasic system (FBS) or the fluoruous multiphasic system (FMS) in synthetic chemistry.^{[1][2][3][4]} It is also used as an additive to increase oxygen solubility in fermentation media.^[5]

Packaging

<https://www.sigmaaldrich.com/catalog/product/aldrich/p9900?lang=en®ion=US&gclid=CjwKCAjwq4fsBRBnEiwANTahcLo57up7qQKT--Y2bDX1x9DNVhXoL...> 1/4

25 g in ampule

Safety Information

Personal Protective Equipment

Eyeshields, Faceshields, full-face respirator (US), Gloves, multi-purpose combination respirator cartridge (US), type ABEK (EN14387) respirator filter

RIDADR NONH for all modes of transport

WGK Germany 3

Flash Point(F) >212 °F

Flash Point(C) >100 °C

Documents

Certificate of Analysis

Enter Lot No.



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 Three-component one-pot synthesis of pyrimidinone derivatives in fluorous media: Ytterbium bis (perfluorooctanesulfonyl) imide complex catalyzed Biginelli-type reaction. Hong M and Cai C Journal of Heterocyclic Chemistry 46(6), 1430-1432, (2009)
 Sc [N (SO₂C₈F₁₇)₂] 3 catalyzed condensation of β-naphthol and aldehydes in fluorous solvent: One-pot synthesis of 14-substituted-14H-dibenzo [a, j] xanthenes. Hong M and Cai C Journal of Fluorine Chemistry 130(10), 989-992, (2009)
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European cells & materials, 25, undefined (2013-1-4)

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Laboratory investigation; a journal of technical methods and pathology, 91(9), undefined (2011-6-29)

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