

Fomblin® HC/04

Perfluoropolyether

Perfluoropolyethers are odorless, colorless, transparent liquid polymers. They are hydrophobic, lipophobic, vapor permeable, insoluble in organic solvents, chemically and biologically inert, and non-flammable.

Fomblin® HC/04 (MW: 1,500) is used as a silky feeling emollient, moisture barrier, hair conditioner, skin conditioner, emulsion stabilizer, binder and anticracking agent, plasticizer, detackifier, lubricant, wetting agent, slow release agent, and skin protectant.

Typical properties

Property	Typical value	Unit
Average molecular weight	1,500	amu
Viscosity at 20°C	40	cSt
Density at 20°C	1.87	g/cm ³
Pour point	-62	°C
Boiling point	>230	°C
Vapor pressure at 20°C	10 ⁻³	torr
Surface tension at 20°C	21	dyne/cm
Interfacial tension vs. water	55	dyne/cm
Neutralization number	0.01	mgKOH/g
Refractive index n _D 20	1.293	
Purity	>99.9	%

Identification

INCI Name	Polyperfluoromethylisopropyl ether
IUPAC Name	Trifluoromethyl-poly[oxy-2-trifluoromethyl-1,1,2-trifluoroethylene]-poly[oxy-difluoro-methylene]-trifluoromethyl ether
Other Chemical Names	Perfluoropolyether (PFPE), Perfluorinated polyether, Polyoxyperfluoroalkane
CAS Name and Number	1-Propene,1,1,2,3,3,3 -hexafluoro-, oxydized and polymd, 69991-67-9
EINECS Number	Not applicable (since it is a polymer)
ENCS Name and Number (J)	Perfluoro[copolyalkylene(propylene and methylene)]polyether, (7)-2095
CLS Name and Numbers (J)	Perfluoropolyether, 42 (Standard Code), 523159 (Ingredient Code)

Toxicity information and safety

See "Fomblin® HC – Dossier of toxicity tests" and "Fomblin® HC – Safety Data Sheet".

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