

Gemini[®] HFPO Type PFPE Functional Intermediates

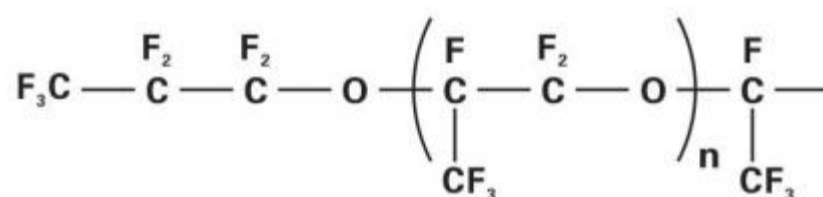
Introduction:

Gemini[®] PFPE Functional Fluids are derived from Hexafluoropropylene Oxide (HFPO), they are mono-functional Hexfluoropropylene polyether backbone coupled with functional end-groups.

Our PFPE Functional Intermediates are K type based on backbone structure (CF₃CF₂CF₂O(CF(CF₃)CF₂O)_nCF(CF₃)--). Combining a traditional material with one of the functional intermediates allows you to lower the surface energy or glass transition temperature, or provide a lubricating layer for your material.

PFPE Functional Intermediates have monofunctional groups like Alcohol, Carboxyl, Methyl Ester, Amide, Allyl Ether, Amide Ether Alcohol, Diol, Silane and Acrylate. They have the best Molecular Range and Functionality Purity in the world. Contact us if you need other functional groups or higher/lower MW. Reactions of these groups can be accomplished by employing many of the traditional synthetic methodologies used with their perfluoroalkyl analogues.

Our PFPE Functional Intermediates are the critical precursors to lots of PFPE surfactants and have fantastic applications in Hydrophobic / Oleophobic Coatings, Low Refractive Index Coatings / Claddings, Optical Thin Film Coatings, Plastic Hardcoatings, Functional Paint / Dye, Electronic Materials, Optical Adhesives, Encapsulation / Sealant Materials, Cross Linking Agents etc.



Reaction Precursors & Effective Ingredients Raw materials

	Structure	Type	Molecular Weight
PFPE Alcohol	HFPO-OH	OH-7000	500<MW<1000
		OH-7100	1000<MW<2000
		OH-7200	2000<MW<3000
		OH-7300	3000<MW<4000
		OH-7700	7000<MW
PFPE Carboxyl	HFPO-COOH	CA	800<MW<8100
PFPE Methyl Ester	HFPO-COOCH ₃	ME	800<MW<8100
PFPE Amide	HFPO-CONH ₂	AM	800<MW<8100
PFPE Allyl Ether	HFPO-CH ₂ -O-CH ₂ -CH=CH ₂	ZAE-10	1000<MW<2000
		ZAE-20	2000<MW<3000
		ZAE-30	3000<MW<4000
		ZAE-70	7000<MW
PFPE Amide Ether Alcohol	HFPO-CONH-(CH ₂) ₂ -OH	AEA	800<MW<8100
PFPE Amide (Meth)Acrylate	HFPO-CONH-X-(CH ₂) ₂ -OC(O)C(CH ₃)=CH ₂	AMA	860<MW<8200
PFPE (Meth)Acrylate	HFPO-X-CH ₂ -OC(O)C(CH ₃)=CH ₂	MA	860<MW<8200
PFPE Silane	HFPO-X-Si(OR) ₃	SIL	860<MW<4000
PFPE Diol		DIA	870<MW<8200

PFPE Silane & Acrylate & Phosphate & Ammonium salt & Epoxy Acrylate Formulated Products

	Our Type	Remarks
PFPE Silane	ADF-809	PFPE Anti Fingerprint Fluid
PFPE Acrylate	HCPA-620	PFPE UV Curable PU Resin Coating Additive
	HCPA-S50	PFPE Functional Main Component of UV Formulation Resin
	PCBC-725/7210	PFPE PCB Conformal Coating
PFPE Epoxy Acrylate	PCA	PFPE Melt Compounding Polymer Additive
PFPE Phosphate Ester	PHP	PFPE Surface Treatment PFPE soluble antiwear additive
PFPE Carboxylic Acid Ammonium Salt	CBA	PFPE Anionic Surfactant Water Solution

Features:

Functional advantages include:

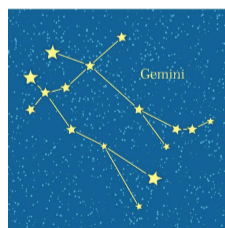
- Ability to combine the inertness of Gemini® PFPE Functional Fluids with your own substrate
- Useful in a variety of applications
- Generally nontoxic and both hydrophobic and oleophobic
- Chemically and biologically inert and silicone-free
- Low vapor pressure
- Contain no volatile organic compound (VOC) materials or chlorine

PFPE Silane and Acrylate Formulated Products:

PFPE Silane can hydrolyze and form nm degree film enabling excellent hydrophobic and oleophobic. PFPE Acrylate can use as additive in various solvent based or waterborne paints and coating systems or use as conformal coating material.

These products will sell as 5%~20 wt% solid in specialty fluoro solvent carrier.

- Easy clean anti-smudge coating
- Anti-adhesion
- Low coefficient of friction
- Thin and transparent coating
- Durability including chemical and abrasion resistance



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