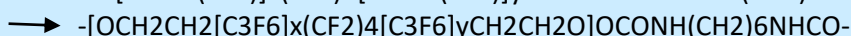
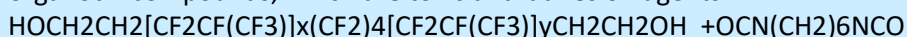


1H,1H,8H,8H-Pefluorooctane-1,8-diol(abb. ; 12FDO) HOCH₂(CF₂)₆CH₂OH

Purity	96%
CAS Number	90177-96-1
Molecular Formula	C ₈ H ₆ F ₁₂ O ₂
Molecular Weight	362.11

1. Preparation of fluorinated polyurethane (x+y=2.47) for anti-fouling coatings for marine organisms. It is assumed that it is possible to stop using organotin compounds, which are toxic anti-adhesion agents.



FPU advancing contact angle; 96°/H₂O(PTFE;109°), 64°/CH₂I₂ (PTFE;80°)

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2. Both OH-terminated perfluoropolyethers improve the extrusion processability of fluoroelastomer (HOCH₂CF₂(C₂F₄O)_m(CF₂O)_n-CF₂CH₂OH ,MW400) crosslinking agent

VDF/HFPCopolymer Physical properties

Application

	Example	Comp.Example
BAF (phr)	-	1.7
PFPE(phr)	4.0	-
Original properties		
Hs(pts)	73	75
TB(MPa)	16.0	16.8
EB(%)	150	175
Heat aging (275°C * 70hr)		
Δ TB(%)	-8	-35
Δ EB(%)	-4	+15
Comp.Set(200°C * 70hr)	13%	17%
Extrusion (ASTM-D2230 A)	A	B

US 4,810,760, US 4,188,352, 4,894,418

Properties:

Appearance	-
Boiling point, °C	>250
Melting point, °C	80-83

Capacity:	-
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Packing:	-
UN, PG:	-