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1H,1H,8H,8H-Pefluorooctane-1,8-diol(abb. ; 12FDO)

$HOCH_2(CF_2)_6CH_2OH$

Purity	96%
CAS Number	90177-96-1
Molecular Formula	C8H6F12O2
Molecular Weight	362.11
Application	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. HOCH2CH2[CF2CF(CF3)]x(CF2)4[CF2CF(CF3)]yCH2CH2OH +OCN(CH2)6NCO ⟶ -[OCH2CH2[C3F6]x(CF2)4[C3F6]yCH2CH2O]OCONH(CH2)6NHCO- FPU advancing contact angle;96°/H2O(PTFE;109°),64°/CH2I2 （PTFE;80°） *Chem.Mater., Vol.5, No.9, 1993, p1299-1306* 2. Both OH-terminated perfluoropolyethers improve the extrusion processability of fluoroelastomer（HOCH2CF2(C2F4O)m(CF2O)n-CF2CH2OH ,MW400） crosslinking agent VDF/HFPCopolymer Physical properties

	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℃＊70hr）		
Δ TB(%)	-8	-35
Δ EB(%)	-4	+15
Comp.Set(200℃＊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:	-
Packing:	-
UN, PG:	-