

Perfluoro(1,3-bis(vinyloxy)propane)

$\text{CF}_2=\text{CFOCF}_2\text{CF}_2\text{CF}_2\text{OCF}=\text{CF}_2$ (abb. ; C3-DVE)

Purity 98%

CAS Number 13846-22-5

Molecular Formula C7F12O2

Molecular Weight 344.05

Application It has been difficult to uniformly distribute a sufficient amount of cross-linking points in a peroxide-crosslinked perfluoroelastomer having a high molecular weight while suppressing gelling behavior. Perfluoroelastomers with uniform composition distribution and good compression set were obtained by combining two easily polymerizable perfluorovinyl group-bearing monomers.

	Example	CompExple
Composition (T/M/C4-DVE mol%)	76/24/0.05	69/31/0
Original Properties		
Hs(pts)	68	74
TB(MPa)	20	19
EB(%)	160	180
CS(%)	23	43

Abb. T;CF₂=CF₂, M;CF₂=CFOCF₃, C4-DVE; CF₂=CFO(CF₂)₄OCF=CF₂

Note-1 CS ; Compression set, 25% Compress, 200°C*70hr

Note-2 CTA;l(CF₂)₄I, 0.08wtl%, Polymerization temp. 50°C

US 8,877,870(2012.07 applied)

Properties:

Appearance -

Boiling point, °C 91

Flash point, °C

Capacity: 20kg/month

Packing: -

UN, PG: -