

Bis-2-(chlorosulfonyl)tetrafluoroethyl ether (abb. ; BCSEE)



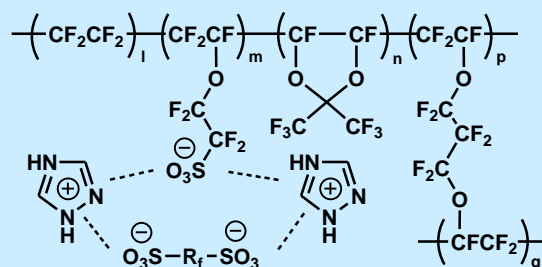
Purity	97%
CAS Number	86553-57-3
Molecular Formula	C ₄ Cl ₂ F ₈ O ₅ S ₂
Molecular Weight	415.06

A potential plasticizer for the anhydrous proton conducting material. Hydrolyzed product of BCSEE; HSO₃CF₂CF₂OCF₂CF₂SO₃H(abb. BSAEE) BSAEE amine salts may have (1) low vapor pressure above 100degC, (2) high conductivity assumed as proton jumping, (3) fair plasticizing property of the perfluoroether linkage with perfluorinated sulfonic acid copolymer, favorably crosslinked.

We can offer you mostly the relevant fluorochemicals.

ClSO₂CF₂CF₂OCF₂CF₂SO₂Cl, ClSO₂CF₂CF₂SO₂Cl, ClSO₂CF₂CF₂CF₂CF₂SO₂Cl, CF₂=CFOCF₂CF₂SO₂F, CF₂=CF₂OCF₂CF₂CF₂OCF=CF₂

Application



(assist O₂ permeability, high Tg)

J.Mater.Chem.A, 2019, 7, p15585-15592; Copoly(vinyl pyridine) swollen by H₂SO₄ membranes

J. Electrochemical Soc., 139, p2329; HSO₃(CF₂)_nSO₃H solution conductivity
Energy & Environmental Sci., DOI 10.1039/4ee02280g; RfSO₃H/1,2,4-Triazonium salt

Properties:

Appearance	-
Boiling point, °C	87/20Torr
Flash point, °C	-

Capacity: -

Packing: -

UN, PG: -