

## Bis-2-(chlorosulfonyl)tetrafluoroethyl ether

ビス-2-(クロロスルホニル)テトラフルオロエチルエーテル  
(略号 ; BCSEE)

### CISO<sub>2</sub>CF<sub>2</sub> CF<sub>2</sub>OCF<sub>2</sub>CF<sub>2</sub>SO<sub>2</sub>Cl

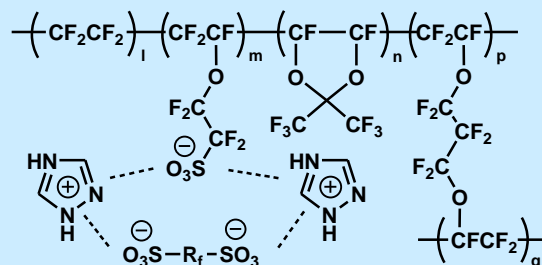
Purity	97%
CAS Number	86553-57-3
Molecular Formula	C <sub>4</sub> Cl <sub>2</sub> F <sub>8</sub> O <sub>5</sub> S <sub>2</sub>
Molecular Weight	415.06

A potential plasticizer for the anhydrous proton conducting material. Hydrolyzed product of BCSEE; HSO<sub>3</sub>CF<sub>2</sub>CF<sub>2</sub>OCF<sub>2</sub>CF<sub>2</sub>SO<sub>3</sub>H(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.

CISO<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>OCF<sub>2</sub>CF<sub>2</sub>SO<sub>2</sub>Cl, CISO<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>SO<sub>2</sub>Cl, CISO<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>SO<sub>2</sub>Cl, CF<sub>2</sub>=CFOCF<sub>2</sub>CF<sub>2</sub>SO<sub>2</sub>F, CF<sub>2</sub>=CF<sub>2</sub>OCF<sub>2</sub> CF<sub>2</sub>CF<sub>2</sub>OCF=CF<sub>2</sub>

#### Application



(assist O<sub>2</sub> permeability, high Tg)

*J.Mater.Chem.A*, 2019, 7, p15585-15592; Copoly(vinyl pyridine) swollen by H<sub>2</sub>SO<sub>4</sub> membranes

*J. Electrochemical Soc.*, 139, p2329; HSO<sub>3</sub>(CF<sub>2</sub>)<sub>n</sub>SO<sub>3</sub>H solution conductivity

*Energy & Environmental Sci.*, DOI 10.1039/4ee02280g; RfSO<sub>3</sub>H/1,2,4-Triazolium salt

#### Properties:

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

Capacity: -

Packing: -

UN, PG: -