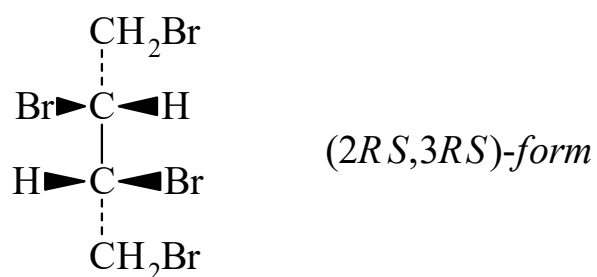




>>Entry Name: 1,2,3,4-Tetrabromobutane, 9CI

Synonym(s): Fire Guard 5000



CAS Registry Number: 1529-68-6

Molecular Formula: C₄H₆Br₄

Molecular Weight: 373.707

Accurate Mass: 369.800294

Percentage Composition: C 12.86%; H 1.62%; Br 85.53%

Use/Importance: Fire-proofing agent

Rare Chemicals Library: S41856-0

>>Variant: (2*R*,3*R*)-form

Synonym(s): (±)-form

Molecular Formula: C₄H₆Br₄

Molecular Weight: 373.707

Accurate Mass: 369.800294

Percentage Composition: C 12.86%; H 1.62%; Br 85.53%

Physical Description: Leaflets (petrol)

Melting Point: Mp 40-41°

Boiling Point: Bp₁₂ 139-140°

Solubility: Sol. EtOH, Et₂O, petrol

>>Variant: (2*R*,3*SR*)-form

Synonym(s): *meso*-form

CAS Registry Number: 2657-67-2

Molecular Formula: C₄H₆Br₄

Molecular Weight: 373.707

Accurate Mass: 369.800294

Percentage Composition: C 12.86%; H 1.62%; Br 85.53%

Physical Description: Needles (petrol)

Melting Point: Mp 118-119°

Boiling Point: Bp₆₀ 180-181°

Solubility: Spar. sol. petrol

Other Data: Steam-volatile

References:

Perkin, W.H. *et al.*, *J.C.S.*, 1905, **87**, 855-864, (*synth*)

Jacobson, R.A., *J.A.C.S.*, 1932, **54**, 1545-1548, (*synth*)

Valette, A., *Ann. Chim. (Paris)*, 1948, **3**, 644-678, (*synth, struct*)

U.K. Pat., 1971, 1 229 124; *CA*, **75**, 37372x, (*use*)