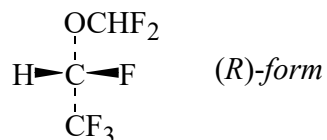




>>Entry Name: Desflurane, INN, USAN

Synonym(s): 2-(Difluoromethoxy)-1,1,1,2-tetrafluoroethane, 9CI. Difluoromethyl 1,2,2,2-tetrafluoroethyl ether. Suprane. I 653



CAS Registry Number: 57041-67-5

Molecular Formula: C₃H₂F₆O

Molecular Weight: 168.039

Accurate Mass: 168.000983

Percentage Composition: C 21.44%; H 1.20%; F 67.84%; O 9.52%

General Statement: Incorrect abs. config. assigned by one group of workers before 1996

Biological Use/Importance: Inhalation anaesthetic

Development Status: Launched 1992 (US)

>>Variant: (R)-form

CAS Registry Number: 143252-06-6

Molecular Formula: C₃H₂F₆O

Molecular Weight: 168.039

Accurate Mass: 168.000983

Percentage Composition: C 21.44%; H 1.20%; F 67.84%; O 9.52%

Optical Rotation: $[\alpha]_{\text{D}}^{20} -37.5$ (c, 1 in hexane)

>>Variant: (S)-form

CAS Registry Number: 142916-68-5

Molecular Formula: C₃H₂F₆O

Molecular Weight: 168.039

Accurate Mass: 168.000983

Percentage Composition: C 21.44%; H 1.20%; F 67.84%; O 9.52%

Melting Point: Mp -126°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +37.5$ (c, 1 in hexane)

Other Data: Said to possess more favourable anaesthetic props. than the racemate

>>Variant: (±)-form

Molecular Formula: C₃H₂F₆O

Molecular Weight: 168.039

Accurate Mass: 168.000983

Percentage Composition: C 21.44%; H 1.20%; F 67.84%; O 9.52%

Physical Description: Volatile liq. with sl. non-pungent odour and low blood-gas partition coefficient (0.42)

Boiling Point: Bp $23\text{-}24^{\circ}$

Calculated Log P Data: Log P 1.91 (calc)

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