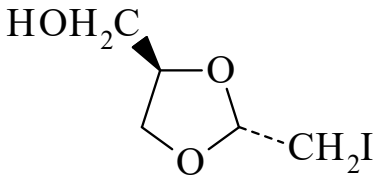
>>**Entry Name: 2-(Iodomethyl)-1,3-dioxolane-4-methanol,** 9CI
Synonym(s): 2-Hydroxymethyl-4-iodomethyl-1,3-dioxolane. **Domiodol,** INN, USAN**.** Lisomucol. MG 13608



(2*RS*,4*RS*)-*form*

CAS Registry Number: 61869-07-6

Molecular Formula: $C_5H_9IO_3$
Molecular Weight: 244.029
Accurate Mass: 243.959643
Percentage Composition: C 24.61%; H 3.72%; I 52.00%; O 19.67%
Use/Importance: Mucolytic agent
Refractive Index: n_D^{20} 1.5470
Calculated Log P Data: Log P 0.27 (calc)

>>**Variant:** (2*RS*,4*RS*)-form
Synonym(s): (±)-*cis*-form
CAS Registry Number: 61508-57-4
Molecular Formula: $C_5H_9IO_3$
Molecular Weight: 244.029
Accurate Mass: 243.959643
Percentage Composition: C 24.61%; H 3.72%; I 52.00%; O 19.67%
Boiling Point: $Bp_{0.2}$ 114-116°
Hazard & Toxicity: LD_{50} (mus, orl) 150 mg/kg

>>**Variant:** (2*RS*,4*SR*)-form
Synonym(s): (±)-*trans*-form

CAS Registry Number: 61508-55-2
Molecular Formula: $C_5H_9IO_3$
Molecular Weight: 244.029
Accurate Mass: 243.959643
Percentage Composition: C 24.61%; H 3.72%; I 52.00%; O 19.67%
Boiling Point: $Bp_{0.2}$ 106-108°
Hazard & Toxicity: LD_{50} (mus, orl) 135 mg/kg

References:

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Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 970