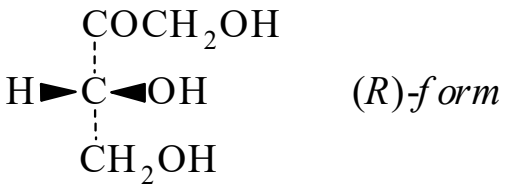
>>**Entry Name: 1,3,4-Trihydroxy-2-butanone,** 9CI
ENTRY UNDER REVIEW
Synonym(s): Erythrulose. *glycero*-Tetrulose



(*R*)-*form*

CAS Registry Number: 40031-31-0

Molecular Formula: $C_4H_8O_4$
Molecular Weight: 120.105
Accurate Mass: 120.04226
Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>**Variant:** (*R*)-form
Synonym(s): D-form

CAS Registry Number: 496-55-9

Molecular Formula: $C_4H_8O_4$
Molecular Weight: 120.105
Accurate Mass: 120.04226
Percentage Composition: C 40.00%; H 6.71%; O 53.28%
Optical Rotation: $[\alpha]_D^{20}$ –11 (c, 1.0 in H_2O)

>>**Derivative:** 2-Nitrophenylhydrazone

Melting Point: Mp 151-153°

>>**Derivative:** 3,4-Dibenzoyl
Synonym(s): 3,4-Di-*O*-benzoyl-D-*glycero*-tetrulose

Molecular Formula: $C_{18}H_{16}O_6$
Molecular Weight: 328.321
Accurate Mass: 328.09469
Percentage Composition: C 65.85%; H 4.91%; O 29.24%
Optical Rotation: $[\alpha]_D$ –32.2 ($CHCl_3$)

>>**Derivative:** Tribenzoyl
Synonym(s): 1,3,4-Tri-*O*-benzoyl-D-*glycero*-tetrulose

Molecular Formula: $C_{25}H_{20}O_7$
Molecular Weight: 432.429
Accurate Mass: 432.120905
Percentage Composition: C 69.44%; H 4.66%; O 25.90%
Melting Point: Mp 118-119°
Optical Rotation: $[\alpha]_D$ +14.2 ($CHCl_3$)

>>**Derivative:** Dimethyl ketal, 1-phosphate

Molecular Formula: $C_6H_{15}O_8P$
Molecular Weight: 246.153
Accurate Mass: 246.050457
Percentage Composition: C 29.28%; H 6.14%; O 52.00%; P 12.58%
Melting Point: Mp 160-165° (as dicyclohexylammonium salt monohydrate)
Optical Rotation: $[\alpha]_D$ +13.3 (H_2O)

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