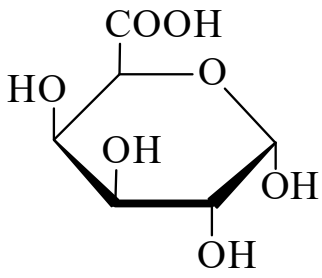
>>**Entry Name: Galacturonic acid,** 9CI, 8CI
ENTRY UNDER REVIEW



a-D-Pyranose-*form*

CAS Registry Number: 14982-50-4
Related CAS Registry Numbers(s): 17120-55-7

Molecular Formula: $C_6H_{10}O_7$
Molecular Weight: 194.141
Accurate Mass: 194.042655
Percentage Composition: C 37.12%; H 5.19%; O 57.69%

>>**Variant:** D-form

CAS Registry Number: 685-73-4

Molecular Formula: $C_6H_{10}O_7$
Molecular Weight: 194.141
Accurate Mass: 194.042655
Percentage Composition: C 37.12%; H 5.19%; O 57.69%
Biological Source: Obt. from the hydrol. prods. of polymers of pectic substances

>>**Derivative:** Brucine salt

Melting Point: Mp 180°
Optical Rotation: $[\alpha]_D$ –7.7 (H_2O)

>>**Derivative:** 4-Bromophenylhydrazone

Melting Point: Mp 145-146°
Optical Rotation: $[\alpha]_D$ +9 (c, 0.7 in MeOH)

>>**Derivative:** 2,4-Dinitrophenylhydrazone

Melting Point: Mp 158 dec.°

>>**Derivative:** Me ester
Synonym(s): Methyl D-galactopyranosuronate

CAS Registry Number: 18486-47-0

Molecular Formula: $C_7H_{12}O_7$
Molecular Weight: 208.168
Accurate Mass: 208.058305
Percentage Composition: C 40.39%; H 5.81%; O 53.80%
Melting Point: Mp 147°
Optical Rotation: $[\alpha]_D^{25}$ +94 → +34 (c, 1.9 MeOH)

>>**Derivative:** Di-Et dithioacetal

Molecular Formula: $C_{10}H_{20}O_6S_2$
Molecular Weight: 300.396
Accurate Mass: 300.07013
Percentage Composition: C 39.98%; H 6.71%; O 31.96%; S 21.35%
Melting Point: Mp 132.5°
Optical Rotation: $[\alpha]_D^{27}$ +17 (MeOH)