

Table 5. Hydroxy acids identified in the GRA 95229 meteorite

Hydroxy Acid (a.)	Nanomole/g[†]
Linear α-hydroxy acids R-CH(OH)-COOH	
glycolic	128.8
DL-lactic	387.1
D 2-hydroxybutyric	55.3
L 2-hydroxybutyric	55.5
DL-2-hydroxyvaleric	20.5
DL -2-hydroxycaproic	2.4
Branched α-hydroxy acids R-C(CH₃)(OH)-COOH	
2-hydroxyisobutyric	87.8
D -2-hydroxy-2-methylbutyric	21.7
L -2-hydroxy-2-methylbutyric	21.9
D -2-hydroxy-3-methylbutyric	3.0
L -2-hydroxy-3-methylbutyric	3.0
Dicarboxylic hydroxy acids HOOC-R-CH(OH)-COOH	
DL maleic	7.6
DL 2-hydroxyglutaric	7.7
DL citramalic	≤1

[†]Concentrations were measured by GC-MS and are approximate by $\pm 4\%$.