



VUP, a.s., Nábrežná 4, 971 04 Prievidza, Slovak Republic

## Quality specification for Automotive

Product: **Dimethylolbutanoic acid**  
[2,2-Bis(hydroxymethyl)butyric acid]

Empirical formula: C<sub>6</sub>H<sub>12</sub>O<sub>4</sub>  
CAS number: 10097-02-6

Molecular Weight: 148,16 g/mol  
EINECS: 424-090-1

Test Description	Units	Specification Limits
Appearance	-	white crystalline powder
Purity (Titration)	% weight	> 99,0
Water content (K. Fischer titration)	% weight	< 0,3
Melting point (Kofler)	°C	108 - 112
Ash content	% weight	< 0,03
HCHO (Titration)	% weight	< 0,03
Acid value (Titration)	mg KOH/g	373 - 382
Hydroxyl value (Titration)	mg KOH/g	745 - 764
Na (AAS)	ppm	< 5
Fe (AAS)	ppm	< 5
Ca (AAS)	ppm	< 5
K (AAS)	ppm	< 5
SO <sub>4</sub> <sup>2-</sup> (ITP)	ppm	< 20
Cl- (Titration)	ppm	< 10
Angle of repose	°	< 40
Caking test	-	OK
Silicon oil (NMR)	ppm	< 1

Date: March 10, 2022

Verified by: Ing. Ľudovít Žiak, PhD.