



Isopentanoic Acid

2-Methybutyric Acid

N-Pentanoic Acid

Valeric Acid

C₄H₉COOH (mixed isomers)

Description

A pungent, colorless to water-white liquid.

Physical properties

Molecular Weight	102.13
Relative Evaporation Rate nBuAc=1	0.02
Vapor Pressure at 20°C, mmHg	0.1
Density at 20°C lb/gal	7.82
Specific Gravity at 20/20°C	0.937
Viscosity at 20°C cP	-
Surface Tension	
(dynes/cm at 20°C)	-
(dynes/cm at 25°C)	-
Hansen Solubility Parameters, [cal/cm ³] ^{1/2}	
Total	-
Non-Polar	-
Polar	-
Hydrogen Bonding	-
Boiling Point, °C at 760mm Hg	183.1
Melting Point °C	-44
Solubility at 20°C	
%Wt In Water	3.2
%Wt Water in	-
Closed Cup Flash Point °F	185
SARA 313 (see note 1†)	N
Hazardous Air Pollutant (see note 2††)	-

† **Note 1:** Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III Section 313

†† **Note 2:** Hazardous Air Pollutants listed under Title III of the Clean Air Act

Classification/Registry Numbers

CAS Number	109-52-4; 116-53-0
EINECS	203-677-2; 204-15-2

(Please see second page)

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Features

- Slightly soluble in water
- Carboxyl functionality in a lower molecular weight fatty acid
- Mixed isomers product

Applications

- Synthetic lubricants
- Chemical intermediate (plasticizers, pharmaceuticals, metallic salts, vinyl stabilizers)
- Extractant for mercaptans from hydrocarbons

How supplied

- Bulk: Tank truck/tank cars/isotanks
- Drums (40 drum minimum-drummed to order)

Note: Consult the appropriate Material Safety Data Sheet for safety and handling guidelines for this product.

The Dow Chemical Company
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