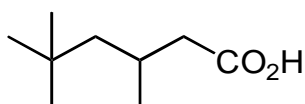


Trade name **ISONONANOIC ACID (KYOWANOIC - N)**

Chemical Name 3,5,5-TRIMETHYLHEXANOIC ACID

Chemical Structure $\text{CH}_3\text{C}(\text{CH}_3)_2\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{COOH}$



Molecular Formula $\text{C}_9\text{H}_{18}\text{O}_2$

Molecular Weight 158.2

CAS No. 3302-10-1(3,5,5-Trimethylhexanoic Acid)

EINECS No. 221-975-0(3,5,5-Trimethylhexanoic Acid)

TSCA On Inventory

Specification	Item	Unit	Specification	Method
	Color	APHA	15max	JIS K 0071
	Purity	Wt %	95.0 min	JIS K 0114
	Specific Gravity	20/20°C	0.897 - 0.903	JIS K 0061
	Acid Value	KOHmg /g	337min	JIS K 0070
	Water Content	Wt %	0.10 max	JIS K 0068

Physical Property	Item	Unit	
	Appearance		Clear Liquid
	Boiling Point	°C	225
	Melting Point	°C	- 30max
	Flash Point (COC)	°C	127
	Ignition Point	°C	440
	Refractive Index	n_D^{20}	1.427
	Viscosity	mPa·s (20°C)	11.2
	Solubility (water in)	Wt %(22°C)	1.34
	(in water)	Wt %(22°C)	0.17

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Kyowa Hakko Chemical Co., LTD. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or any process. Kyowa Hakko Chemical Co., LTD. assumes no legal responsibility for use of or reliance upon this information.

Health Hazards	Acute toxicity data on Kyowanoic- N			
	Acute Toxicity	LD ₅₀ (oral)	rat(female)	0.732g/kg
	Irritation A single 4-hour and 1-hour test to rabbit skin: PII 4.3			
	Acute toxicity data on Nonanoic acid (CAS No. 112-05-0) which is a isomer of the product (Kyowanoic—N) are shown for one's information			
		LD ₅₀ (oral)	rat	3,200mg/kg
		LD ₅₀ (oral)	mouse	15g/kg
		LD ₅₀ (ivn)	mouse	224mg/kg
Irritation	skin rabbit		500mg/24H	MODERATE
	skin guinea pig		100%	SEVERE
	eye rabbit		91mg	SEVERE

Emergency and First Aid Procedure	1)Skin Contact	Remove contaminated clothing. Wash the affected area with plenty of clean water and soap. If irritation develops, see a physician.
	2)Eye Contact	Flash eyes with plenty of clean water for at least 15 minutes while holding eyelids open. If irritation develops , see a physician.
	3)Inhalation	If a large amount is inhaled , remove individual(s) to fresh air.

Storage	Tighten the cap of container and store in a cool , dry , well-ventilated , storage area of cabinet.
----------------	---

Extinguishing Media Water spray , Dry chemicals , Protein type air foams or carbon dioxide .

Packing	180kg	Iron drum
	20MT	ISO container

Kyowa Hakko Chemical Co.,Ltd. 3-2-15 Nihonbashi-Muromachi, Chuo-ku,Tokyo,103-0022,Japan Tel: +81-3-3510-3552 Fax:+81-3-3510-3571	Kyowa Hakko USA, Inc 767 Third Avenue, 19th Fl. New York, NY 10017, USA Tel: +1-212-319-5353 Fax:+1-212-421-1283	Kyowa Hakko Europe GmbH Am Wehrhahn 50 D-40211 Dusseldorf Germany Tel: +49-211-17545-0 Fax:+49-211-17545-441	Kyowa Hakko Industry (Singapore) Pte. Ltd. 260 Orchard Road #12-04 The Heeren, Singapore 238855 Tel: +65-6733-4948 Fax:+65-6733-0819
---	---	--	---

Kyowa Hakko Chemical Co.,Ltd.
Shanghai Representative Office
8 Xingyi Road MaxDo Bldg., Room
908, Changning District, Shanghai
200336, China
Tel: +86-21-5208-0009
Fax:+86-21-5208-0130

Home page www.kyowachemical.co.jp

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Kyowa Hakko Chemical Co., LTD. It relates only to the specific material designated herein, and dose not relates to use in combination with any other material or any process. Kyowa Hakko Chemical Co., LTD. assumes no legal responsibility for use of or reliance upon this information.