

Product Information

TOMADOL® 1-5

PRODUCT DESCRIPTION

The TOMADOL® 1-5 ethoxylates function as wetting agents and emulsifiers in various agricultural chemical applications. Tomadol 1-5 at 0.1% promotes excellent wetting of hydrophobic substrates by reducing the static surface tension to 26 mN/m. Also, at 0.015% in water the contact angle measures 18°. TOMADOL® 1-5 is an excellent emulsifier, especially for aromatic and paraffinic solvents.

	EO Groups (Avg.)	Molecular Weight	EO Content Wt%	Melting Range, °C	Color (APHA)	Sp. Gravity @ 25 °C	Viscosity, cSt @ 25 °C	Hydroxyl No., mg KOH/g	Surface Tension (0.1 wt%)	Flash pt. °C	Cloud pt. °C	Pour pt. °C	HLB
Tomadol 400	EO	300	44,5	-25 to -7	5 - 10	0,93	15	189	24	124	(b)	-10	8,9
Tomadol 600	EO	400	53,0	-5 to 24	5 - 10	0,97	21	134	26	157	(b)	7	10,6
Tomadol 900	EO	460	65,0	2 to 15	5 - 10	0,98	15	122	27	159	64	8	13,1
Tomadol 1200	EO	590	68,0	15 to 28	5 - 10	1,00	35	95	30	145	80	19	13,6
Tomadol 91-2.5	2,7	281	42,3	-25 to -17	5 - 10	0,925	12	200	24	124	(b)	-13	8,5
Tomadol 91-6	6,0	425	62,1	-5 to -17	5 - 10	0,984	23	132	29	143	52	6	12,4
Tomadol 91-8	8,3	524	69,7	7 to 24	5 - 10	1,008	39	107	30	159	80	15	13,9
Tomadol 1-3	3,0	305	43,3	-15 to 4	5 - 10	0,936	10	184	25	142	(b)	-7	8,7
Tomadol 1-5	5,0	392	56,1	-4 to 17	5 - 10	0,966	21	143	25	148	(b)	6	11,2
Tomadol 1-7	7,0	479	64,3	4 to 20	5 - 10	0,996	28	117	28	165	58	13	12,9
Tomadol 1-73B	5,6	418	59,0	4 to 20	5 - 10	0,987	48	134	26	147	36	13	11,8
Tomadol 1-9	9,0	569	69,6	15 to 28	5 - 10	1,011	31	99	31	176	74	18	13,9
Tomadol 23-1	1,0	238	18,5	2 to 11	5 - 10	0,873	13	236	(a)	143	(b)	5	3,7
Tomadol 23-3	2,9	322	39,6	-4 to 6	5 - 10	0,922	14	174	25	152	(b)	1	7,9
Tomadol 23-5	5,0	413	53,3	-3 to 23	5 - 10	0,965	23	136	26	157	(b)	7	10,7
Tomadol 23-6.5	6,6	484	60,0	11 to 25	5 - 10	0,984	29	116	28	168	43	15	12,0
Tomadol 25-3	2,8	330	37,3	2 to 11	5 - 10	0,921	19	170	26	157	(b)	3	7,5
Tomadol 25-7	7,3	524	61,3	2 to 26	5 - 10	0,965	34	107	30	186	50	19	12,3
Tomadol 25-9	8,9	597	65,6	14 to 30	5 - 10	0,982	41	94	30	188	74	21	13,1
Tomadol 25-12	11,9	729	71,8	20 to 34	5 - 10	0,999	53	77	34	223	78 (c)	27	14,4
Tomadol 45-7	7,0	529	58,2	9 to 31	5 - 10	0,959	35	106	29	185	45	19	11,6
Tomadol 45-13	12,9	790	71,8	25 to 37	5 - 10	1,003	59	71	34	249	80 (c)	30	14,4
(a) Aqueous solubility <0.1 wt% (b) Aqueous solubility <0.1 wt% (c) Measured in 5% NaCl solution													

Typical Properties

Property	Unit	Value
Cloud Point		1 °C
Cloud Point	°C	1
Aqueous Solubility		
Color		5-10
APHA		
Ethylene Oxide (EO) Group, avg.		5
Flash Point, min.	°C	142
Hydrophilic-lipophilic Balance (HLB) Value		8.7
Hydroxyl Value	mg KOH/g	143
Melting Point	°C	-5.5
Molecular Weight	g/mol	392
Pour Point	°C	-7
Specific Gravity	g/ml	0.936
at 25°C		
Surface Tension	mN/m	25
0.1 wt%		
Viscosity	mPa·s	21
at 38°C		

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

Made from linear synthetic alcohols, TOMADOL® 1-5 is an excellent wetting agent and emulsifier that provides ease of handling and formulation. Tomadol 1-5 is readily biodegradable.

PACKAGING

4 x 200 kg drums (full pallet) | 1000 kg container

STORAGE

The TOMADOL® 1-5 ethoxylates should be stored under dry and clean conditions between -10°C and 50°C. Please refer to Material Safety Data Sheet.

SHELF LIFE

12 months from the date of manufacture.

HAZARDOUS SUBSTANCE

Information concerning

- Classification and labelling according to regulations for transport and for dangerous substances
- Protective measures for storage and handling
- Measures in case of accidents and fire
- Toxicity and ecological effects

is given in our material safety data sheets.

REGISTRATION LISTING SUMMARY

EU and non-EU countries

Per 40 CFR 180.910 TOMADOL 1-5 (data rights) is exempt from the requirement of a tolerance when used in accordance with good agricultural practice as an inert ingredient in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest.

Disclaimer

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