1. Product overview

Nonionic surfactant, oil-in-water emulsifier and solubilizer for cosmetic and personal care formulations.

2. Product identity

Trade name: MONOPOL TWMLE 20 (TWEEN 20). Manufacturer: DONGNAM CHEMICAL, South Korea. INCI: Polysorbate 20; CAS: 9005-64-5 (general ingredient identity). Physical form: liquid. Grade: Cosmetic Grade Typical HLB: 16.7

3. Technical specifications

Property	Method	Specification	Reported result	Unit
Appearance	DNQC-000	Liquid	Liquid	-
Color	DNQC-001	Max. 8.0	3.2	Gardner
pH	DNQC-003	5.00-7.00	6.10	-
Moisture	DNQC-005	Max. 3.00	1.80	wt%
Hydroxyl value	DNQC-010b	96.0-108.0	102.5	mg KOH/g
Saponification value	DNQC-011	40.0-50.0	45.8	mg KOH/g
Acid value	DNQC-007a	Max. 2.20	0.85	mg KOH/g

Source and traceability

Supplied COA draft dated 12 Feb 2026; lot 26021288; requested PO MC26002244. Reported batch results require supplier confirmation.

4. Applications and suggested use levels

Application	Function	Starting level
Body mist / aqueous fragrance	Solubilizer	0.5-5%
Shampoo / shower gel	Solubilizer	0.2-3%
Creams / lotions	Co-emulsifier	0.5-5%

Suggested levels are general formulation starting points. Adjust to oil loading, clarity and stability.

5. Formulation and compatibility

Water: generally soluble or dispersible. Premix with fragrance or oil and add gradually to water. Screen solubilizer-to-fragrance ratios of 1:1 to 5:1 by weight.

Ethanol 99% and DPG: evaluate compatibility and clarity in the actual solvent blend.

Nonionic character generally supports compatibility with common surfactants. Check pH, electrolytes, viscosity and stability in the finished formulation. Use gentle mixing and avoid unnecessary heating.

6. Storage, packaging and safety

Store tightly closed in a cool, dry place, protected from excessive heat and light. Requested packaging: 200 kg x 50 drums. Reported production date: 12 Feb 2026; reported expiry: 11 Feb 2028. Confirm dates and packaging with supplier.

Consult supplier SDS and applicable cosmetic regulatory documentation before commercial use.