

1-Butyl-3-methylimidazolium Dicyanamide

TECHNICAL DATA SHEET

Document No.	Version	Issue date	Revision date
ZY002-TDS-EN	V2.0	2019-01-04	2026-04-04

01 Product overview

1-Butyl-3-methylimidazolium Dicyanamide is supplied as pure ionic liquid. It is intended for the applications and performance ranges described in this document.

02 Basic information

Property	Value
Product name	1-Butyl-3-methylimidazolium Dicyanamide
Short name	BMIM DCA
CAS number	448245-52-1
EC number	No data available
Molecular formula	C ₁₀ H ₁₅ N ₅
Molecular weight	205.26 g/mol
Appearance	Colorless to pale-yellow transparent liquid

03 Product features

- Stable at ambient temperature; avoid high temperature, strong light and strong oxidizers
- The dicyanamide anion has weak coordination and moderate nucleophilicity and can participate in addition reactions

04 Typical specifications

Property	Specification	Method / remarks
Appearance	Colorless to pale-yellow transparent liquid	Visual
Water	<=0.5%	Karl Fischer
Conductivity	6-12 mS/cm	Conductivity meter
pH	6-8	pH meter

05 Recommended applications

- Electrolytes and additives for supercapacitors and energy-storage batteries
- Green catalytic medium for organic synthesis and polymerization
- Preparation of porous carbon and nanofunctional materials
- Carbon capture, hazardous-gas separation and sample extraction
- Antistatic additives, UV-curing auxiliaries and composite gel electrolytes

06 Packaging

50 g, 100 g, 500 g and 1 kg fluorinated bottles; 5 kg, 25 kg and 200 kg plastic drums; 1,000 kg IBC. Custom packaging available.

07 Storage and handling

Store sealed in a cool, dry, well-ventilated place away from light, fire and heat. Store at 5-30 C. Shelf life: 12 months. Reseal promptly after opening.

08 Disclaimer

This information is provided in good faith based on current knowledge. Conditions and methods of use are beyond the supplier's control. The user is responsible for evaluating the product for the intended application and required performance. For reference only. Final requirements are subject to the executed contract and current product documentation.

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