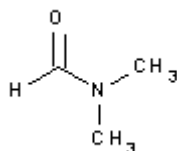


PRODUCT CODE: 361785

N,N-Dimethylformamide for UV, IR, HPLC, GPC, ACS

C_3H_7NO

$(CH_3)_2NCHO$



M.= 73,10

CAS [68-12-2]

EINECS 200-679-5

TARIC 2924 19 00 90

SYNONYMS: DMF, Formic Acid Dimethylamide

PHYSICAL DATA: liquid, Clear, Colourless, Easily soluble in water and organic solvents (20 ° C) Hygroscopic • D 20/4 0,949 • M.P.: -61 °C • B.P.: 153 °C • n_{20/D}: 1,4305 • Flash P.: 57,5 °C • Ign. T.: 410 °C • Vap. press. (20 °C) 3,77 hPa • Viscosity 20 °C 0,86 mPa.s • D. M. 20 °C 3,8 Debye • Dielec. constant 20 °C 36,7 • Evap. number (DIN 53170) 60 • Satur. conc. 20 °C 12 g/m³ • Expl. limit 2,2 % (V) 16 % (V) •

BIBLIOGRAPHY: Merck Index **12**, 3.292 13, 3.269 Sax **DSB000** • Safety **2**, **1374 A** • Kühn-Birett **D 33** • Ullmann **(5.)5**, 212 • Beilstein **4**, **58 III**, **122 IV**, **171** • BRN 605365 • Fieser **1278 2153 3115 4184 5247 7124 8189 9182 11198 12203 14148** • ACS **XI** • ISO 6353/3-1987 R -59, 25 •

HAZARDOUS: C.E: 616-001-00-X • RTECS: LQ 2100000 • LD50 oral rat >5,85 mg/kg / 4h • LD50 inh rat 3040 ppm • LD50 skn rat >3.160 mg/kg • VLA-ED 10 ppm 30 mg/m³



H: H226 • H360D • H332 • H312 • H319 •

P: P280 • P271 • P305+P351+P338 • P311 • P405 • P501 •

TRANSPORT REGULATIONS: UN: 2265 • ADR: 3/III • IMDG: 3/III • IATA: 3/III • PAX: 355 • CAO: 366 • (D/E) •
WEIGHT/VOLUME INFORMATION: 1l-0,948 kg 1kg-1,055 l

SPECIFICATIONS:

Minimum assay (G.C.)	99,9%
Maximum limit of impurities	
APHA colour	10
Acidity	0,0005 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,0003 %
Water (H ₂ O)	0,05 %
Suitability for IR spectrometry:	passes test
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 270 (Cut off) nm	≥ 10 %
Transmittance at 275 nm	≥ 60 %
Transmittance at 290 nm	≥ 80 %
Transmittance at 300 nm	≥ 90 %
Transmittance at 330-450 nm	≥ 98 %
Data of interest in HPLC:	
Rohrschneider Polarity	6,4
Sol. H ₂ O in solv. at 20°C	miscible

For critical jobs, purge with nitrogen.

Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.