



PRODUCT CODE: 363266

1,1,2-Trichlorotrifluoroethane (E.U.) for UV, IR, HPLC
for Essential Uses



M.= 187,38

CAS [76-13-1]

EINECS 200-936-1

TARIC 2903 77 30 90

SYNONYMS: 1,1,2-Trifluorotrichloroethane •

PHYSICAL DATA: liquid, Clear, Colourless, Immiscible with water. • D 20/4 1,58 • M.P.: -35 °C • B.P.: 48 °C • n_{20/D} : 1,3557 • Flash P.:NO • Vap. press. (20 °C) 368 hPa • Viscosity 20 °C 0,71 mPa.s • Dielec. constant 20 °C 2,4 • Satur. conc. 20 °C 2754 g/m³ •

BIBLIOGRAPHY: Merck Index **13**, 2.159 Sax **FOO000** • Safety **2**, **3422 C** • Kühn-Birett **T 25** • Ullmann (**5.**)¹¹, 356 • Beilstein **1**, **III**, **157 IV**, **142** • BRN 1699455 • ACS **IX677VIII1**, 66 • AFNOR T 90-114 "Dosage des Hydrocarbures totaux (1979), ASTM D 3921 "Standard Test Method for Oil and Grease and Petroleum Hydrocarbons in Water" (1990), EPA Method 418.1 "Petroleum Hydrocarbons, Total recoverable" •

HAZARDOUS: RTECS: KJ 4000000 • LD₅₀ oral rat 43.000 mg/kg • LC L₀ inh rat 87000 ppm / 6h • VLA-EC 1.250 ppm 9.745 mg/m³ VLA-ED 1.000 ppm 7.795 mg/m³



H: H420 •

P: P273 • P501 •

TRANSPORT REGULATIONS: UN: 3082 • ADR: 9/III • IMDG: 9/III • IATA: 9/III • PAX: 964 • CAO: 964 • (E) •

WEIGHT/VOLUME INFORMATION: 1l~1,580 kg 1kg~0,633 l

OBSERVATIONS: May harm the ozone layer. May be subject to export control

SPECIFICATIONS:

Minimum assay (G.C.)	99,9%
Density at 20/4	1,578-1,582
Maximum limit of impurities	
APHA colour	10
Acidity	0,0002 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,0005 %
Hydrocarbons (related to squalane/squalene (3050-2900 cm ⁻¹)	0,0002%
Water (H ₂ O)	0,005 %
Suitability for IR spectrometry:	passes test
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 233 (Cut off) nm	³ 10 %
Transmittance at 235 nm	³ 20 %
Transmittance at 240 nm	³ 50 %
Transmittance at 245 nm	³ 80 %
Transmittance at 250 nm	³ 92 %
Transmittance at 260-400 nm	³ 98 %

For critical jobs, purge with nitrogen.

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