

Petroleum ether, boiling range 40 - 60 °C, Multisolvent® HPLC grade
ACS ISO UV-VIS

Identification

CAS [64742-49-0]
EC number: 265-151-9
Taric code: 2710 12 25

Synonyms

Petroleum benzine, Petroleum spirit

Applications

solvents, analytical chemistry.

Specifications

boiling range (40 - 60 °C).....min. 90 % vol
density (20°/4°).....0,640 - 0,655
colour (Hazen).....max. 10
appearance.....clear
acidity.....max. 0,0003 meq/g
iodine index.....max. 0,3
peroxide index.....max. 0,3
aluminium (Al).....max. 0,1 ppm
barium (Ba).....max. 0,01 ppm
boron (B).....max. 0,02 ppm
cadmium (Cd).....max. 0,01 ppm
calcium (Ca).....max. 0,3 ppm
chromium (Cr).....max. 0,02 ppm
cobalt (Co).....max. 0,02 ppm
copper (Cu).....max. 0,02 ppm
iron (Fe).....max. 0,02 ppm
lead (Pb).....max. 0,1 ppm
magnesium (Mg).....max. 0,1 ppm

manganese (Mn).....max. 0,01 ppm
nickel (Ni).....max. 0,02 ppm
tin (Sn).....max. 0,1 ppm
zinc (Zn).....max. 0,01 ppm
aromatic hydrocarbons (as C₆H₆).....max. 0,005 %
sulphur compounds (as S).....max. 0,005 %
substances darkened by H₂SO₄.....passes test
residue on evaporation.....max. 0,0002 %
water (K.F.).....max. 0,01 %

min. transmission/max. absorbance
in a 1,0 cm cell at
wavelength:.....T(%) A (AU)
210 nm.....10 % 1,000 AU
230 nm.....90 % 0,046 AU
250 nm.....98 % 0,009 AU

Microfiltered through membranes
of pore diameter 0,22 µm

Physical data

- Density: (15 °C) 0,65 g/cm³
- Solub. in water: (20 °C): almost non-miscible
- Melting point: < -100 °C
- Boiling point: 40 - 60 °C
- Flash point: < -21 °C
- Ignition temperature: 250 °C
- Vapour pressure: (20 °C) 350 hPa
- Viscosity: (20 °C) 0,45 mPas
- Expl. limit (upper): 8 Vol%
- Expl. limit (lower): 0,8 Vol%

Safety - GHS

Signal Word: Danger

Hazard Statements:

H224: Extremely flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H412: Harmful to aquatic life with long lasting effects.



Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P370+P378: In case of fire: Use ... for extinction.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 3 F1 II • UN 1268 • PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.
- IMDG: 3 II • UN 1268 • PETROLEUM DISTILLATES, N.O.S.
- IATA/ICAO: 3 II • UN 1268 • PETROLEUM DISTILLATES, N.O.S.
- PAX: 305
- CAO: 307
- 10°C - 30°C