

PRODUCT CODE: 481244**Carbon Disulphide dry (max. 0.005% water) low in aromatic compounds DS-ACS**CS₂CS₂

M.= 76,14

CAS [75-15-0]

EINECS 200-843-6

NC 2813 10 00

SYNONYMS: Carbon Sulphide •**PHYSICAL DATA:** Clear , colourless liquid • Solubility in water at 20 °C 2,9 g/l • D at 20/4: 1,262 • M. P.: -111 °C • B. P.: 46 °C • n²⁰/D: 1,628 • Flash. P.: -30°C • Ign. T.: 102 °C • Vap. press. at 20 °C 400 hPa • Viscosity at 20 °C 0,36 mPas • Dielec. constant at 20 °C 262 • Evap. number (DIN 53170) 1,8 • Heat evap. at 46 °C 352 KJ/Kg • Satur. conc. at 20 °C 1244 g/m³ • Expl. limit. 1- 60 in vol % •**APPLICATIONS:** Analytical reagent: RFE • USP **26** • BP • Ph. Eur. **IV** •Synthesis reagent: Preparation of heterocycles by Diels-Alder reactions ; J. Barluenga et al. , *J. Chem. Soc. Chem. Commun.* , 1179 (1986) • Reagent used for the conversion of aliphatic nitro compounds to oximes ; D.H.R. Barton et al. , *Tetrahedron* , **43** , 551 (1987) • It is used in combination with methyl iodide for S-methylation of Grignard reagents ; J. Meijer , P. Vermeer , L. Brandsma , *Rec. Trav.* , **92** , 601 (1978) ; B. Cazes , S. Julia , *Tetrahedron Lett.* , 4065 (1978) •**BIBLIOGRAPHY:** Merck Index **13** , 1821 • Sax CBV 500 • Safety **2** , 684 D • Kühn-Birett S **11** • Beilstein **3** , 197 **I** , 79 **II** , 139 **III** , 320 **IV** , 395 • BRN: 1098293 • Ullmann (4.) **21** , 87 • Fieser **1** , 114 **5** , 94 **6** , 95 • ACS **IX** , 228 **X** , 245 •**HAZARDOUS:** E.C.: 006-003-00-3 • RTECS: FF 6650000 • LD₅₀ orl rat 3188 mg/Kg • LC₅₀ ihl rat 25 g/m³/2h • LC L₀ ihl hmn. 4000 ppm/30 min • VLA-ED: 31 mg/m³ •

R: 11-36/38-48/23-62-63

S: 16-33-36/37-45

TRANSPORT REGULATIONS: UN: 1131 • ADR: 3/I • IMDG: 3/I • IATA: 3/- • PAX: P • CAO: P • (C/E)•**WEIGHT/VOLUME INFORMATION:** 11X1,264kg 1kgX0,791l**SPECIFICATIONS:**

Minimum assay (G.C.)	99,9 %
Identity	IR p/t.
Density at 20/4	1,262-1,264

MAXIMUM LIMIT OF IMPURITIES

APHA colour	10
Non-volatile matter	0,001 %
Benzene (G.C.)	0,0001 %
Toluene (G.C.)	0,0001 %
Water (H ₂ O)	0,005 %
Hydrogen Sulphide (H ₂ S)	0,00015 %
Sulphur Dioxide (SO ₂)	0,00025 %

Metals by ICP [mg/Kg (ppm)]

Ag	0,05
Al	0,5

As	0,05
Au	0,05
B	0,02
Ba	0,1
Be	0,02
Bi	0,05
Ca	0,5
Cd	0,05
Co	0,02
Cr	0,02
Cu	0,02
Fe	0,1
Ga	0,02
Ge	0,05
Hg	0,05
In	0,05
K	0,1
Li	0,05
Mg	0,1
Mn	0,02
Mo	0,02
Na	0,5
Ni	0,02
P	0,2
Pb	0,1
Pt	0,02
Sb	0,02
Si	0,2
Sn	0,1
Sr	0,2
Ti	0,02
Tl	0,02
V	0,02
Zn	0,1
Zr	0,02